Full wwPDB EM Validation Report

Mar 9, 2026 – 06:33 AM UTC

PDB ID	:	5T0C / pdb_00005t0c
EMDB ID	:	EMD-8332
Title	:	Structural basis for dynamic regulation of the human 26S proteasome
Authors	:	Chen, S.; Wu, J.; Lu, Y.; Ma, Y.B.; Lee, B.H.; Yu, Z.; Ouyang, Q.; Finley, D.; Kirschner, M.W.; Mao, Y.
Deposited on	:	2016-08-15
Resolution	:	3.80 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

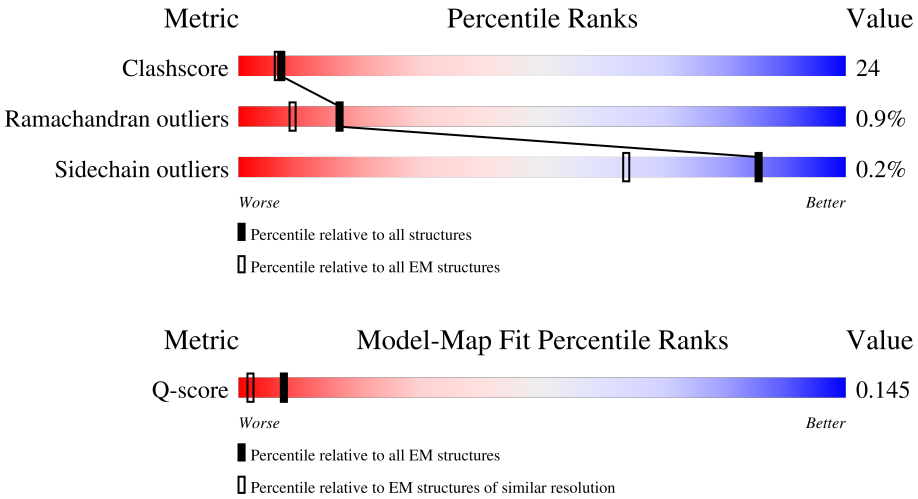
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AU	953	81% 57% 28% 15%
1	BU	953	81% 57% 27% 15%
2	AV	533	90% 52% 37% • 10%
2	BV	533	90% 52% 36% • 10%

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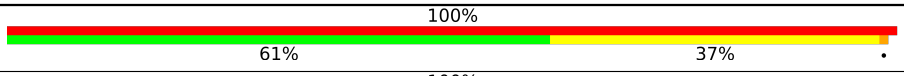
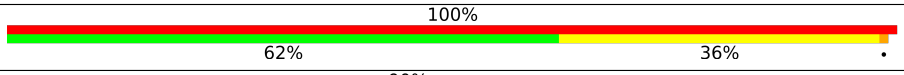
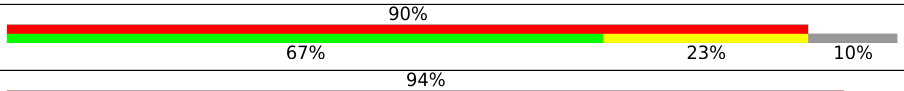
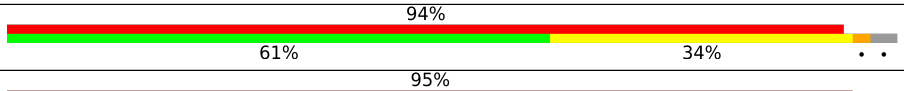
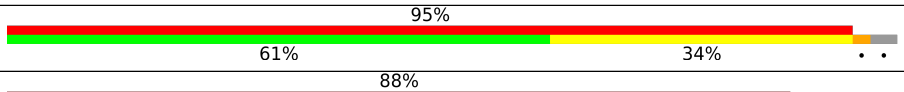
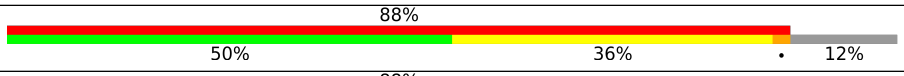
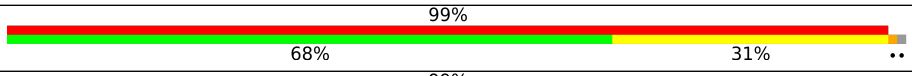
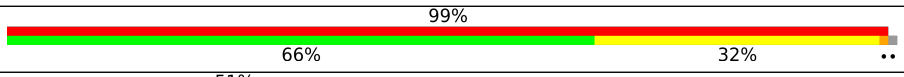
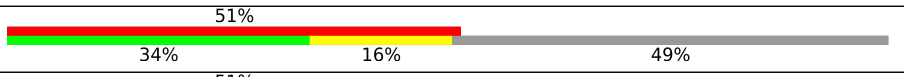
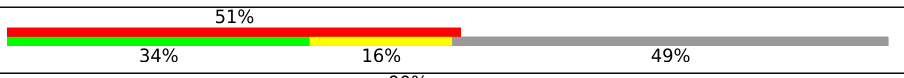
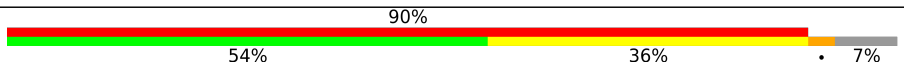
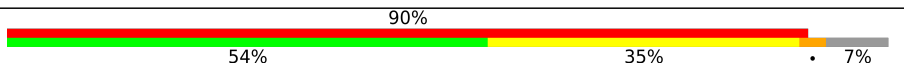
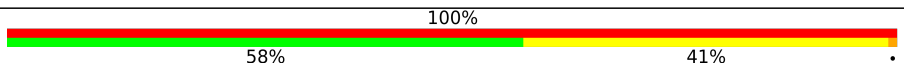
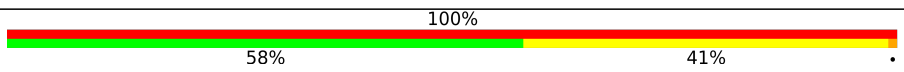
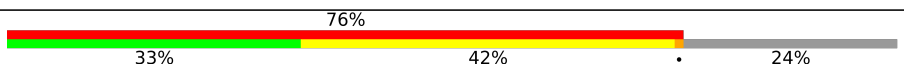
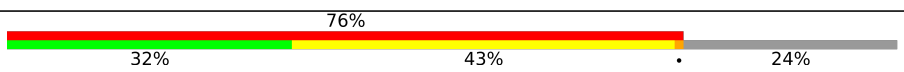
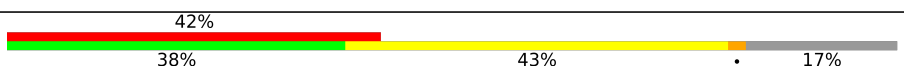
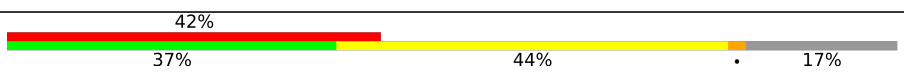
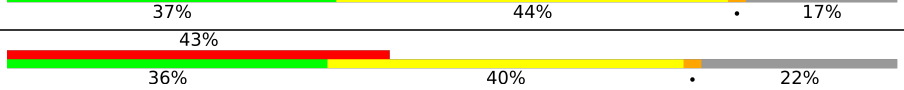
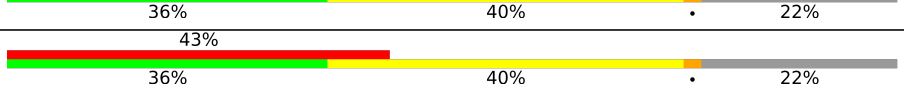
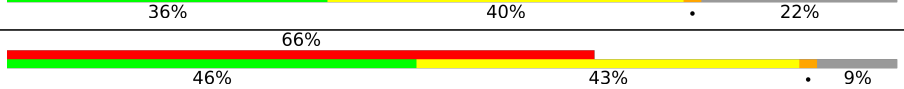
Mol	Chain	Length	Quality of chain
3	AW	456	
3	BW	456	
4	AX	422	
4	BX	422	
5	AY	389	
5	BY	389	
6	AZ	324	
6	BZ	324	
7	Aa	376	
7	Ba	376	
8	Ab	377	
8	Bb	377	
9	Ac	310	
9	Bc	310	
10	Ad	257	
10	Bd	257	
11	Ae	70	
11	Be	70	
12	Af	908	
12	Bf	908	
13	AA	433	
13	BA	433	
14	AB	440	
14	BB	440	
15	AD	418	

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Mol	Chain	Length	Quality of chain
15	BD	418	66% 47% 42% • 9%
16	AE	389	52% 44% 46% • 9%
16	BE	389	53% 44% 46% • 9%
17	AF	439	44% 39% 42% • 17%
17	BF	439	43% 39% 42% • 17%
18	AC	406	68% 40% 52% • 5%
18	BC	406	68% 40% 53% • 5%
19	AG	245	6% 58% 38% • •
19	BG	245	6% 58% 38% • •
20	AH	233	5% 64% 35%
20	BH	233	5% 65% 34%
21	AI	260	7% 58% 38% •
21	BI	260	7% 57% 39% •
22	AJ	247	7% 65% 31% • •
22	BJ	247	8% 66% 30% • •
23	AK	240	8% 61% 33% • 5%
23	BK	240	8% 60% 34% • 5%
24	AL	268	• 52% 36% 11%
24	BL	268	• 53% 36% 11%
25	AM	254	5% 56% 38% 6%
25	BM	254	5% 57% 37% 6%
26	AN	238	• 55% 26% 20%
26	BN	238	• 55% 26% 20%
27	AO	276	• 53% 27% 20%
27	BO	276	• 54% 26% 20%

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Mol	Chain	Length	Quality of chain
28	AP	204	66% 34%
28	BP	204	67% 33%
29	AQ	201	59% 40%
29	BQ	201	60% 39%
30	AR	262	60% 16% 23%
30	BR	262	60% 16% 23%
31	AS	240	64% 25% 11%
31	BS	240	63% 25% 11%
32	AT	263	57% 24% 18%
32	BT	263	56% 25% 18%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
34	ATP	AE	401	-	-	X	-
34	ATP	BE	401	-	-	X	-

2 Entry composition (i)

There are 35 unique types of molecules in this entry. The entry contains 155574 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 26S proteasome non-ATPase regulatory subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AU	806	Total	C	N	O	S	0	0
			6287	3990	1075	1178	44		
1	BU	806	Total	C	N	O	S	0	0
			6287	3990	1075	1178	44		

- Molecule 2 is a protein called 26S proteasome non-ATPase regulatory subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AV	480	Total	C	N	O	S	0	0
			3852	2444	684	710	14		
2	BV	480	Total	C	N	O	S	0	0
			3852	2444	684	710	14		

- Molecule 3 is a protein called 26S proteasome non-ATPase regulatory subunit 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AW	456	Total	C	N	O	S	0	0
			3703	2339	635	704	25		
3	BW	456	Total	C	N	O	S	0	0
			3703	2339	635	704	25		

- Molecule 4 is a protein called 26S proteasome non-ATPase regulatory subunit 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AX	380	Total	C	N	O	S	0	0
			3009	1918	509	570	12		
4	BX	380	Total	C	N	O	S	0	0
			3009	1918	509	570	12		

- Molecule 5 is a protein called 26S proteasome non-ATPase regulatory subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AY	378	Total	C	N	O	S	0	0
			3115	1987	533	578	17		
5	BY	378	Total	C	N	O	S	0	0
			3115	1987	533	578	17		

- Molecule 6 is a protein called 26S proteasome non-ATPase regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AZ	286	Total	C	N	O	S	0	0
			2281	1457	392	427	5		
6	BZ	286	Total	C	N	O	S	0	0
			2281	1457	392	427	5		

- Molecule 7 is a protein called 26S proteasome non-ATPase regulatory subunit 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Aa	373	Total	C	N	O	S	0	0
			2995	1911	510	559	15		
7	Ba	373	Total	C	N	O	S	0	0
			2995	1911	510	559	15		

- Molecule 8 is a protein called 26S proteasome non-ATPase regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Ab	191	Total	C	N	O	S	0	0
			1458	910	261	279	8		
8	Bb	191	Total	C	N	O	S	0	0
			1458	910	261	279	8		

- Molecule 9 is a protein called 26S proteasome non-ATPase regulatory subunit 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Ac	287	Total	C	N	O	S	0	0
			2260	1430	389	422	19		
9	Bc	287	Total	C	N	O	S	0	0
			2260	1430	389	422	19		

- Molecule 10 is a protein called 26S proteasome non-ATPase regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Ad	257	Total	C	N	O	S	0	0
			2116	1371	346	390	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	Bd	257	Total	C	N	O	S	0	0
			2116	1371	346	390	9		

- Molecule 11 is a protein called 26S proteasome complex subunit DSS1.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Ae	40	Total	C	N	O	S	0	0
			334	200	55	77	2		
11	Be	40	Total	C	N	O	S	0	0
			334	200	55	77	2		

- Molecule 12 is a protein called 26S proteasome non-ATPase regulatory subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Af	694	Total	C	N	O	S	0	0
			5331	3364	899	1027	41		
12	Bf	694	Total	C	N	O	S	0	0
			5331	3364	899	1027	41		

- Molecule 13 is a protein called 26S protease regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AA	361	Total	C	N	O	S	0	0
			2835	1788	501	528	18		
13	BA	361	Total	C	N	O	S	0	0
			2835	1788	501	528	18		

- Molecule 14 is a protein called 26S protease regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AB	341	Total	C	N	O	S	0	0
			2662	1671	453	526	12		
14	BB	341	Total	C	N	O	S	0	0
			2662	1671	453	526	12		

- Molecule 15 is a protein called 26S protease regulatory subunit 6B.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AD	380	Total	C	N	O	S	0	0
			3040	1923	524	580	13		
15	BD	380	Total	C	N	O	S	0	0
			3040	1923	524	580	13		

- Molecule 16 is a protein called 26S protease regulatory subunit 10B.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AE	353	Total	C	N	O	S	0	0
			2790	1755	494	525	16		
16	BE	353	Total	C	N	O	S	0	0
			2790	1755	494	525	16		

- Molecule 17 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AF	366	Total	C	N	O	S	0	0
			2863	1802	496	549	16		
17	BF	366	Total	C	N	O	S	0	0
			2863	1802	496	549	16		

- Molecule 18 is a protein called 26S protease regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AC	384	Total	C	N	O	S	0	0
			3015	1894	540	564	17		
18	BC	384	Total	C	N	O	S	0	0
			3015	1894	540	564	17		

- Molecule 19 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AG	240	Total	C	N	O	S	0	0
			1826	1160	305	348	13		
19	BG	240	Total	C	N	O	S	0	0
			1826	1160	305	348	13		

- Molecule 20 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AH	232	Total	C	N	O	S	0	0
			1708	1081	289	333	5		
20	BH	232	Total	C	N	O	S	0	0
			1708	1081	289	333	5		

- Molecule 21 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AI	250	Total	C	N	O	S	0	0
			1912	1204	329	371	8		
21	BI	250	Total	C	N	O	S	0	0
			1912	1204	329	371	8		

- Molecule 22 is a protein called Proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AJ	239	Total	C	N	O	S	0	0
			1704	1056	308	335	5		
22	BJ	239	Total	C	N	O	S	0	0
			1704	1056	308	335	5		

- Molecule 23 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AK	228	Total	C	N	O	S	0	0
			1722	1080	284	348	10		
23	BK	228	Total	C	N	O	S	0	0
			1722	1080	284	348	10		

- Molecule 24 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AL	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		
24	BL	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		

- Molecule 25 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	AM	240	Total	C	N	O	S	0	0
			1856	1178	314	353	11		
25	BM	240	Total	C	N	O	S	0	0
			1856	1178	314	353	11		

- Molecule 26 is a protein called Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AN	191	Total	C	N	O	S	0	0
			1430	893	245	280	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
26	BN	191	Total	C	N	O	S	0	0
			1430	893	245	280	12		

- Molecule 27 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AO	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		
27	BO	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		

- Molecule 28 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AP	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		
28	BP	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		

- Molecule 29 is a protein called Proteasome subunit beta type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AQ	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		
29	BQ	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		

- Molecule 30 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AR	201	Total	C	N	O	S	0	0
			1548	974	273	292	9		
30	BR	201	Total	C	N	O	S	0	0
			1548	974	273	292	9		

- Molecule 31 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AS	213	Total	C	N	O	S	0	0
			1641	1036	282	313	10		
31	BS	213	Total	C	N	O	S	0	0
			1641	1036	282	313	10		

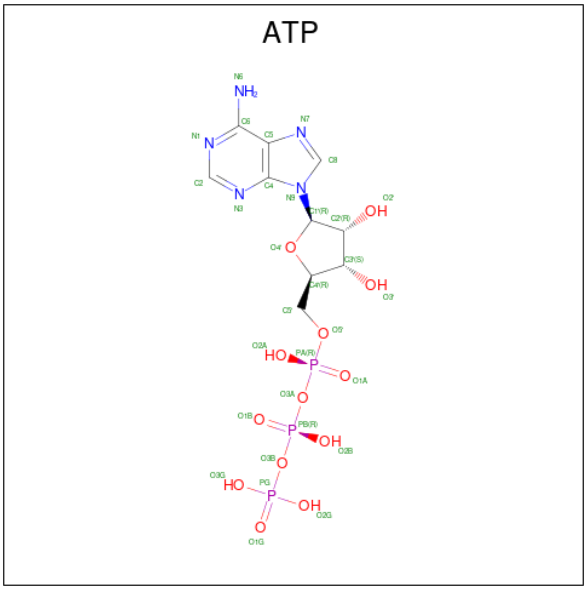
- Molecule 32 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AT	215	Total	C	N	O	S	0	0
			1667	1052	285	318	12		
32	BT	215	Total	C	N	O	S	0	0
			1667	1052	285	318	12		

- Molecule 33 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
33	Ac	1	Total	Zn	0
			1	1	
33	Bc	1	Total	Zn	0
			1	1	

- Molecule 34 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



Mol	Chain	Residues	Atoms					AltConf
34	AA	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	AD	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	AE	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	AF	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	BA	1	Total	C	N	O	P	0
			31	10	5	13	3	

Continued on next page...

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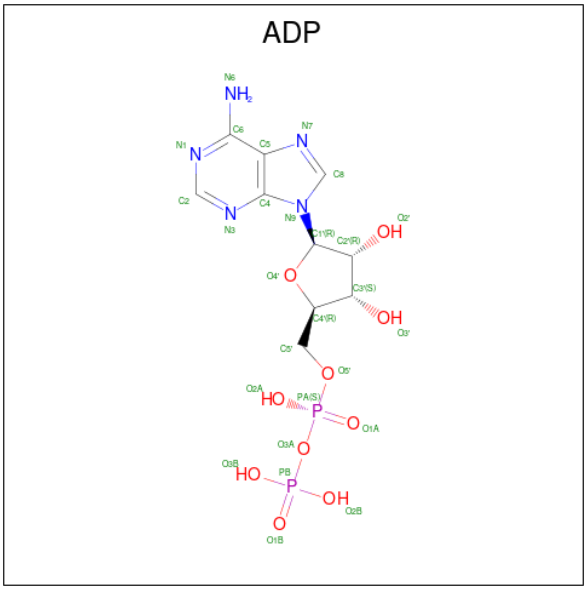
Mol	Chain	Residues	Atoms					AltConf
34	BD	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	BE	1	Total	C	N	O	P	0
			31	10	5	13	3	
34	BF	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 35 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



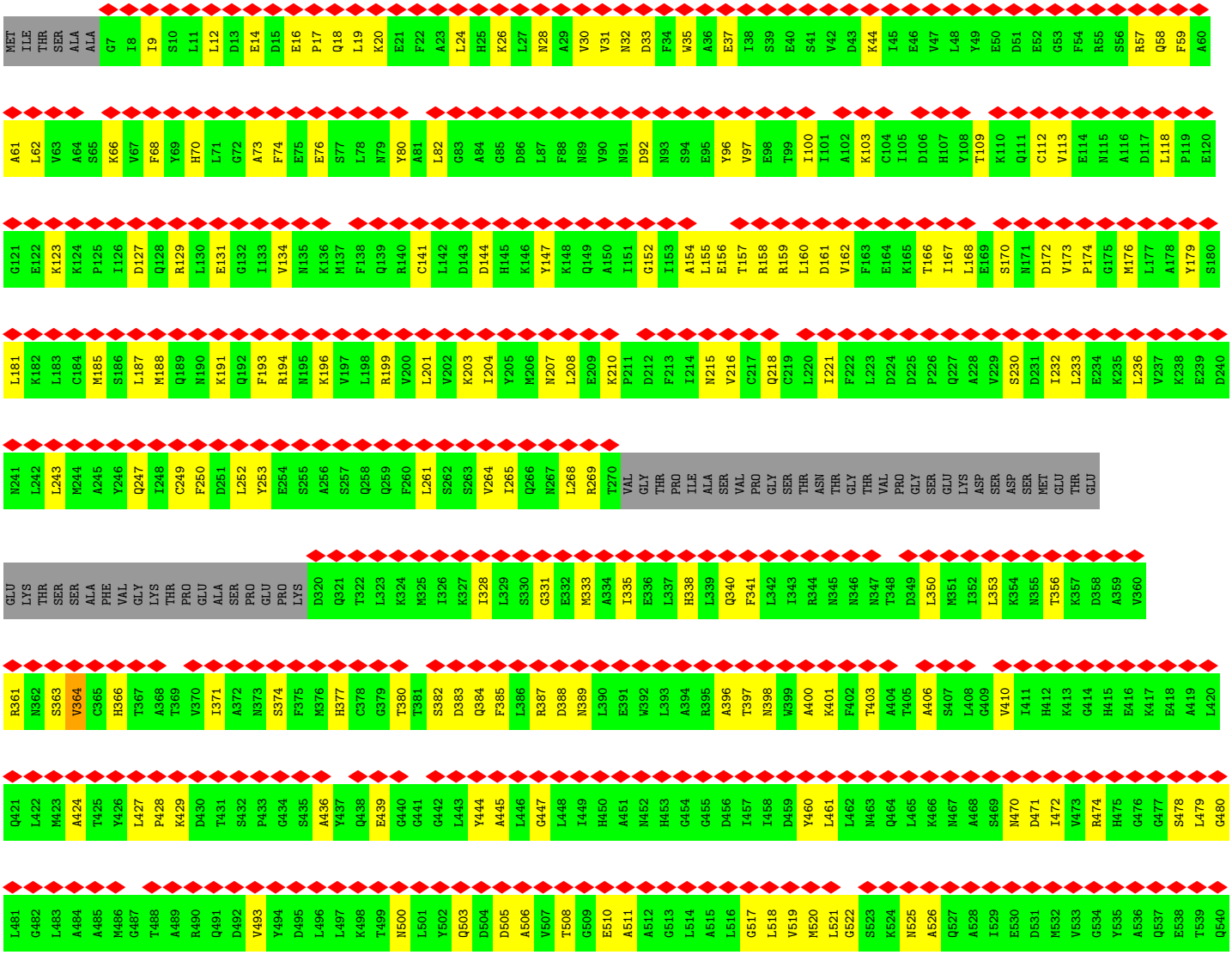
Mol	Chain	Residues	Atoms					AltConf
35	AB	1	Total	C	N	O	P	0
			27	10	5	10	2	
35	AC	1	Total	C	N	O	P	0
			27	10	5	10	2	
35	BB	1	Total	C	N	O	P	0
			27	10	5	10	2	
35	BC	1	Total	C	N	O	P	0
			27	10	5	10	2	

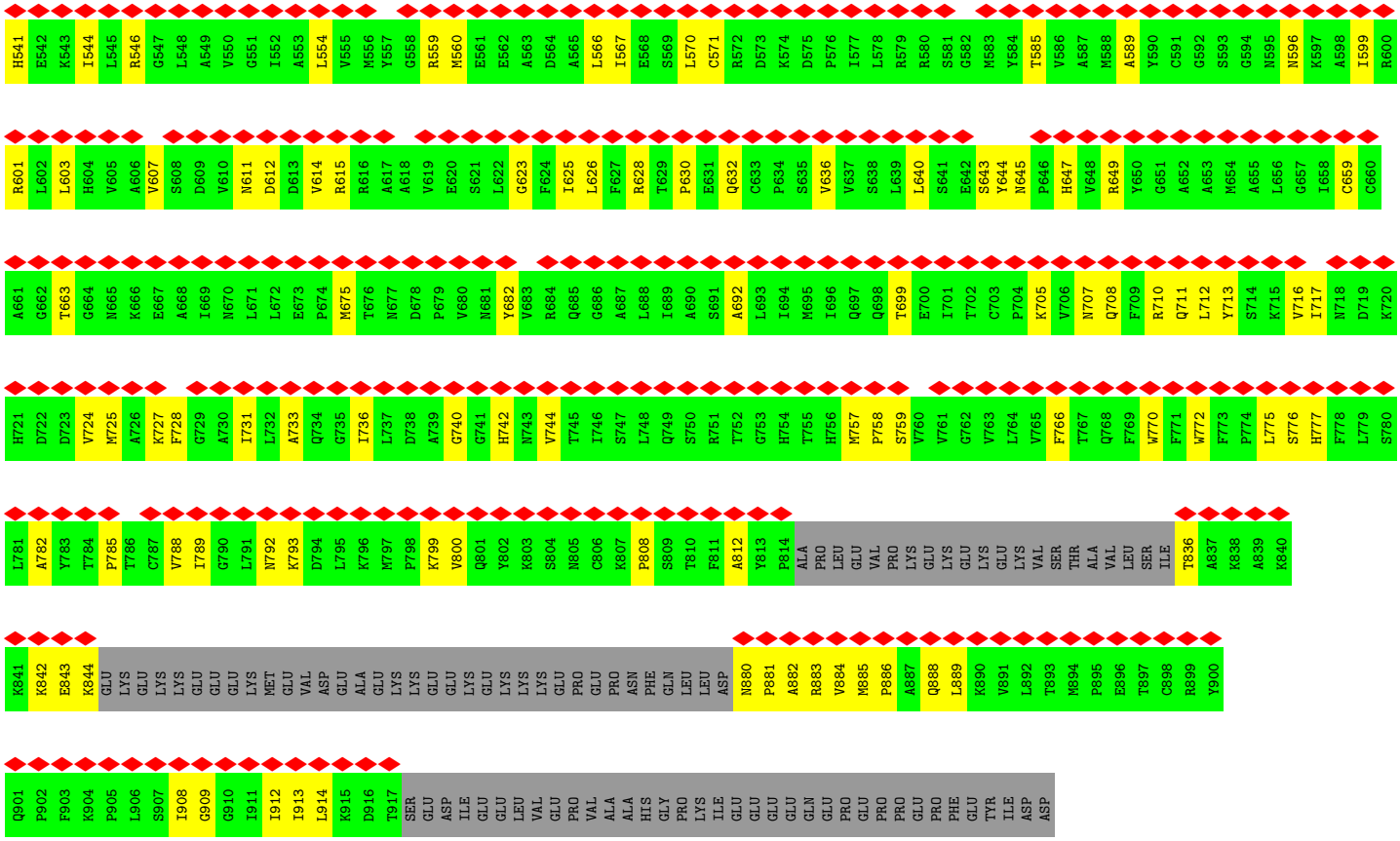
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 1

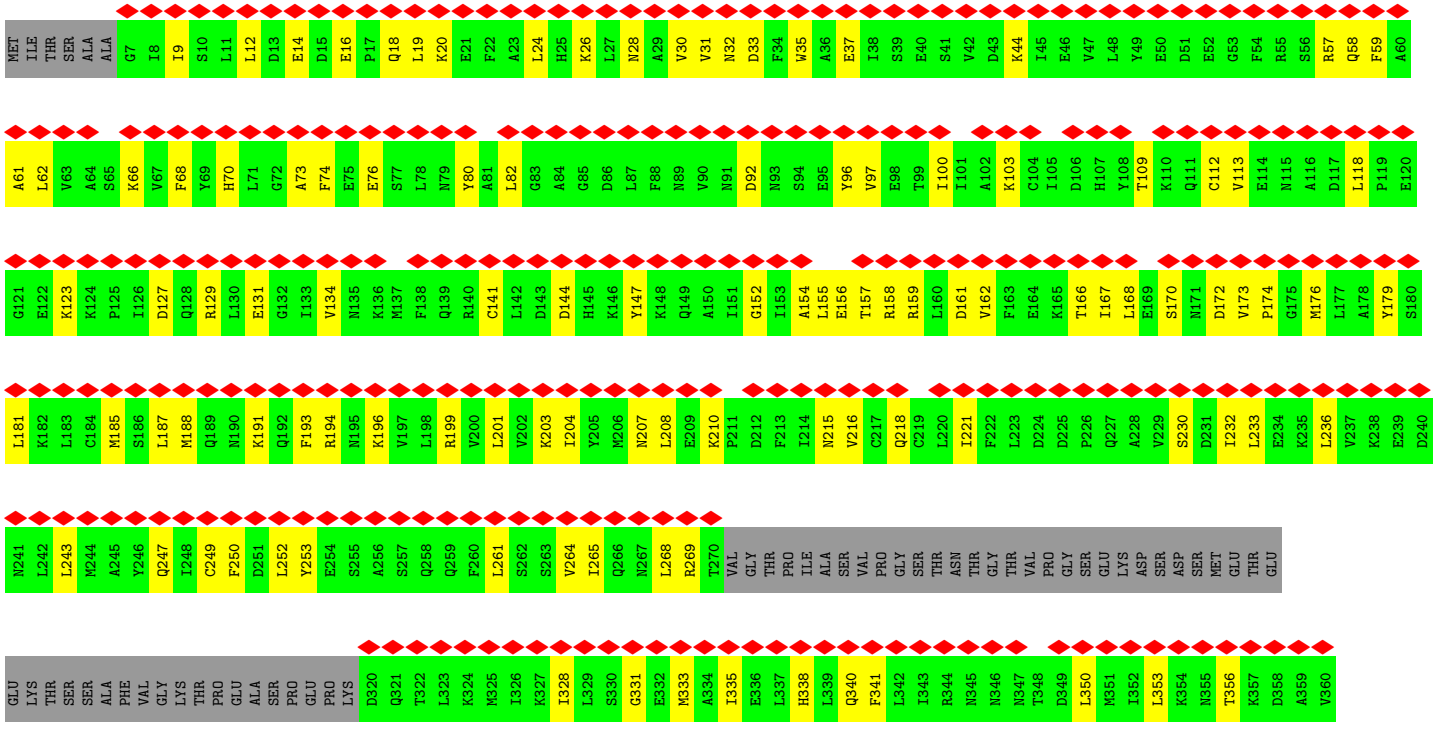
Chain AU:

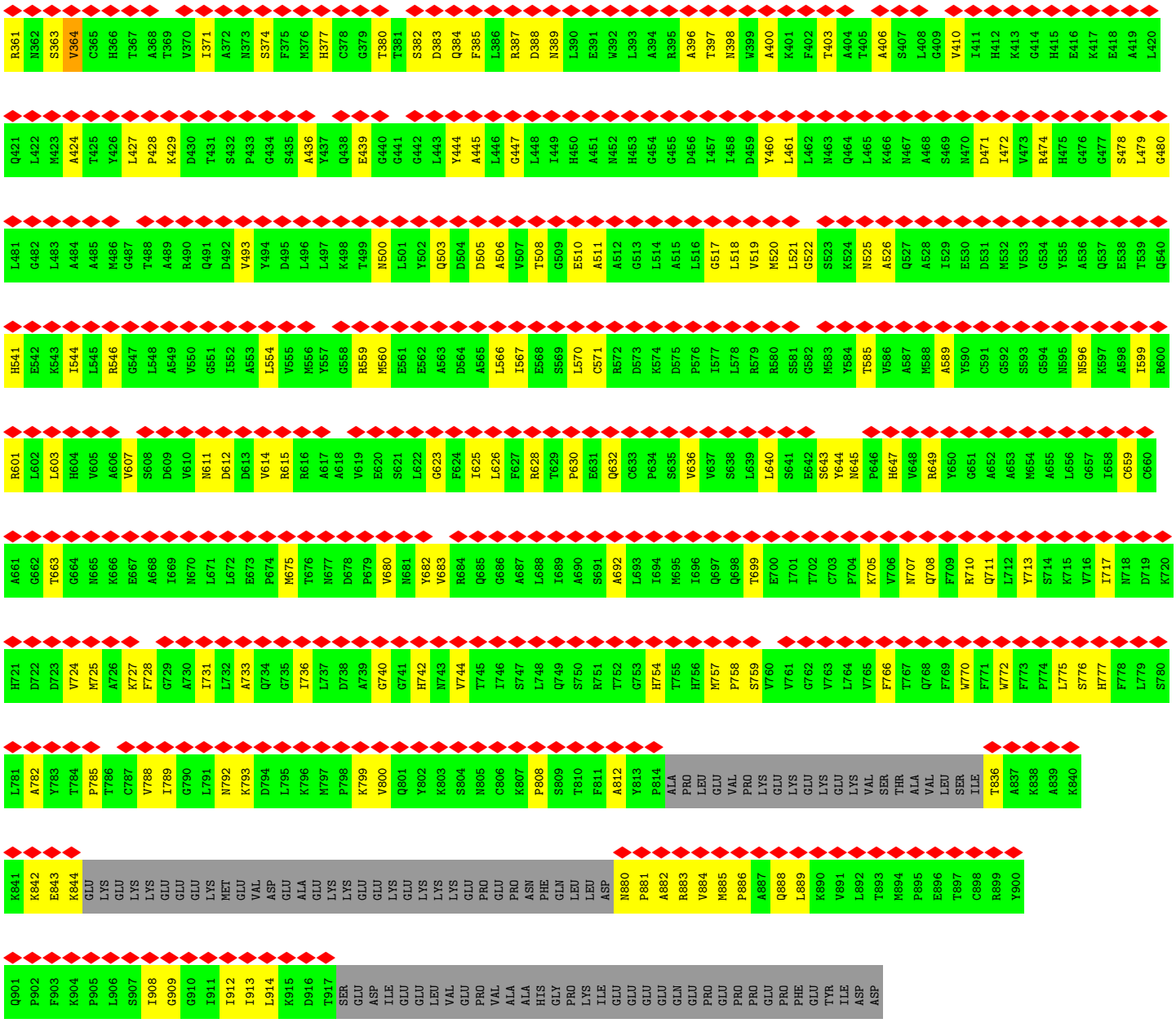




• Molecule 1: 26S proteasome non-ATPase regulatory subunit 1

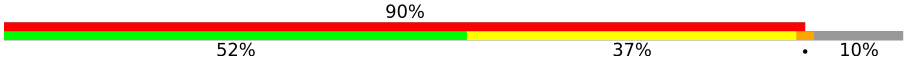
Chain BU:

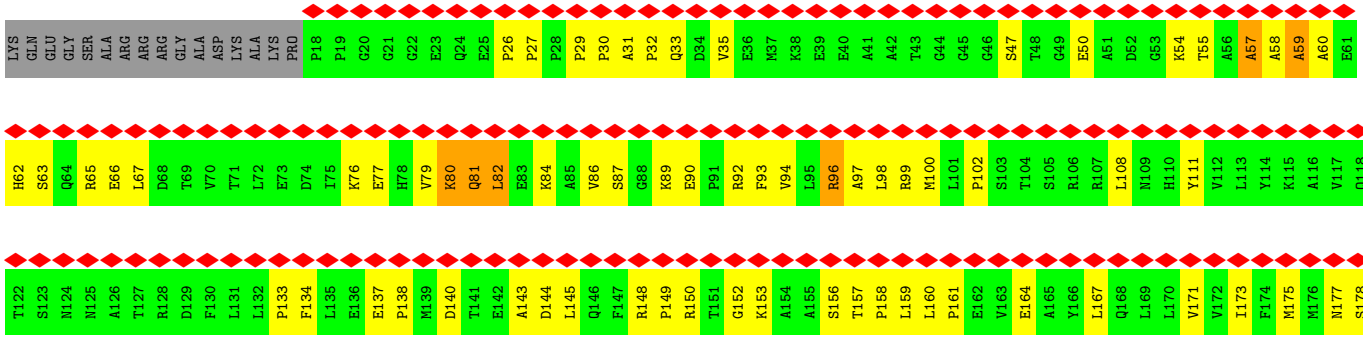


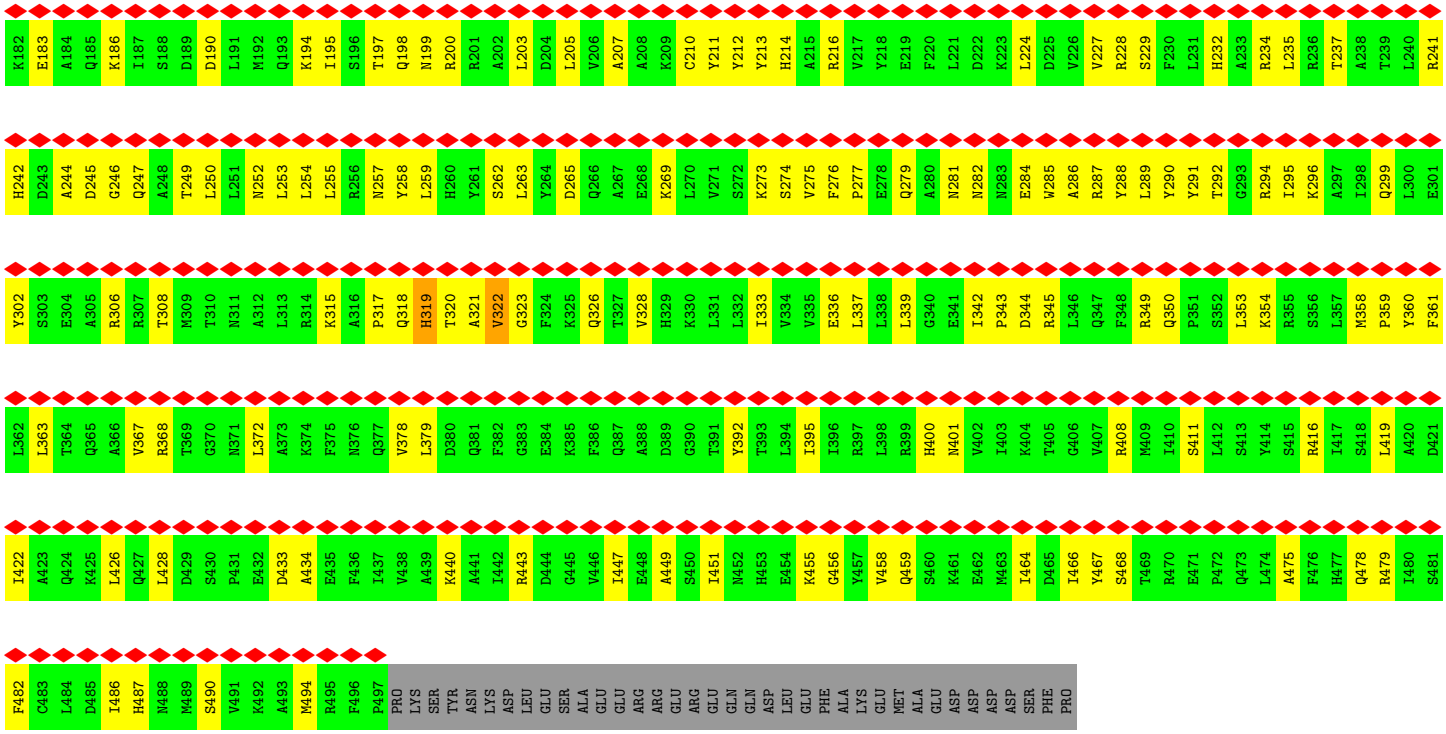


• Molecule 2: 26S proteasome non-ATPase regulatory subunit 3

Chain AV:

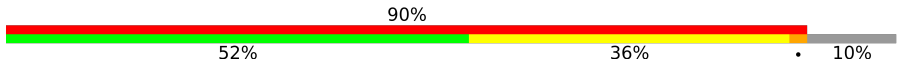


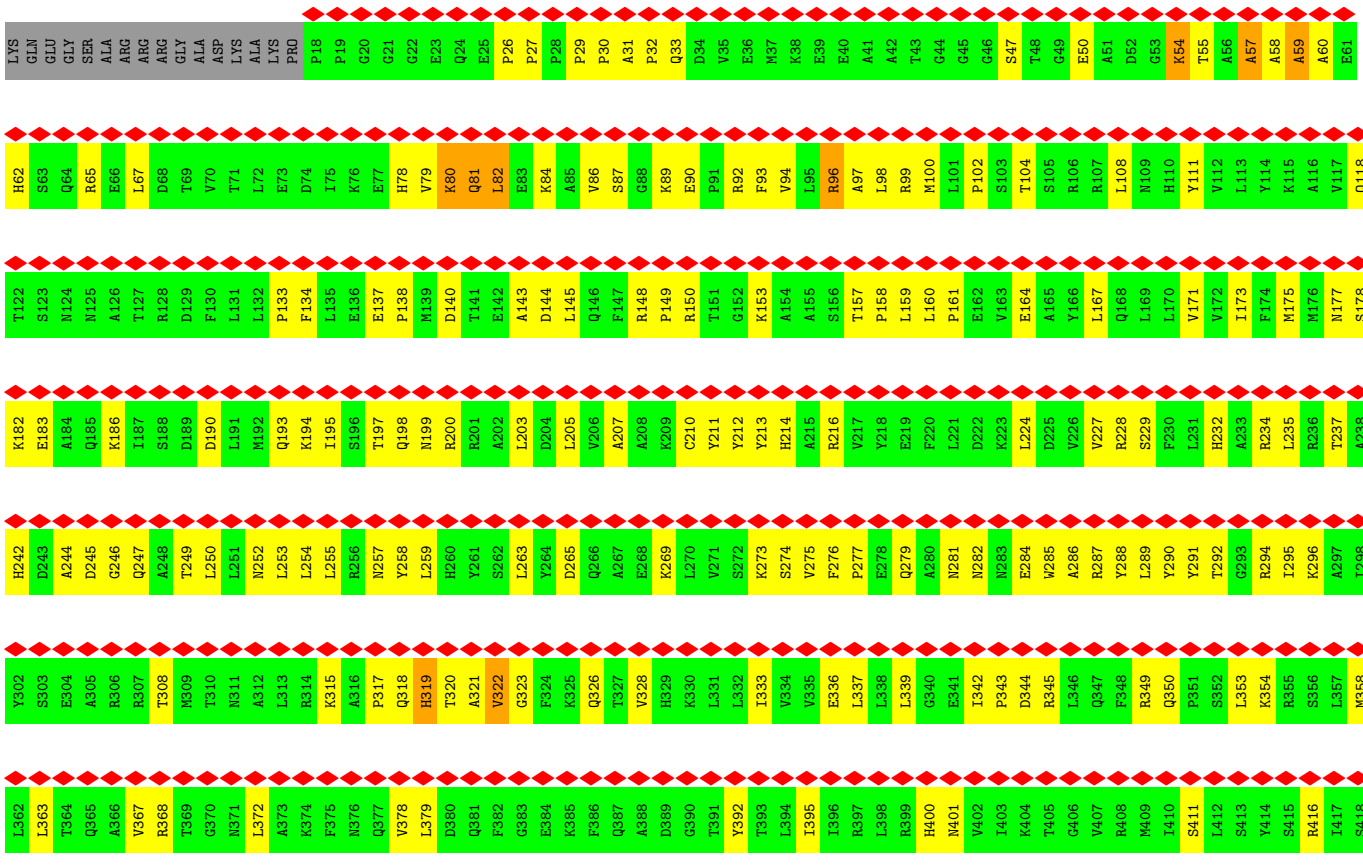


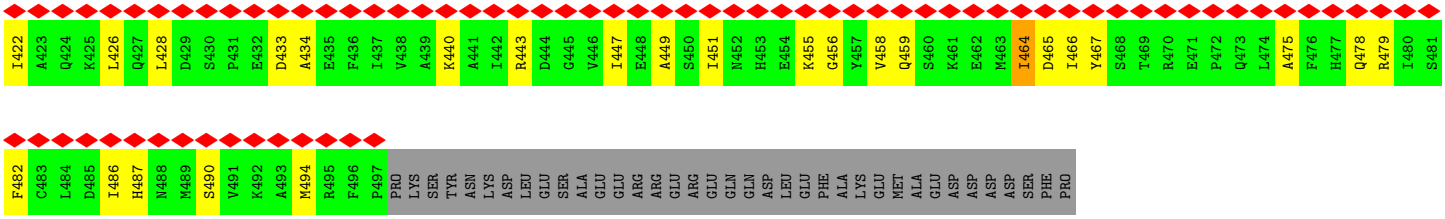


• Molecule 2: 26S proteasome non-ATPase regulatory subunit 3

Chain BV:

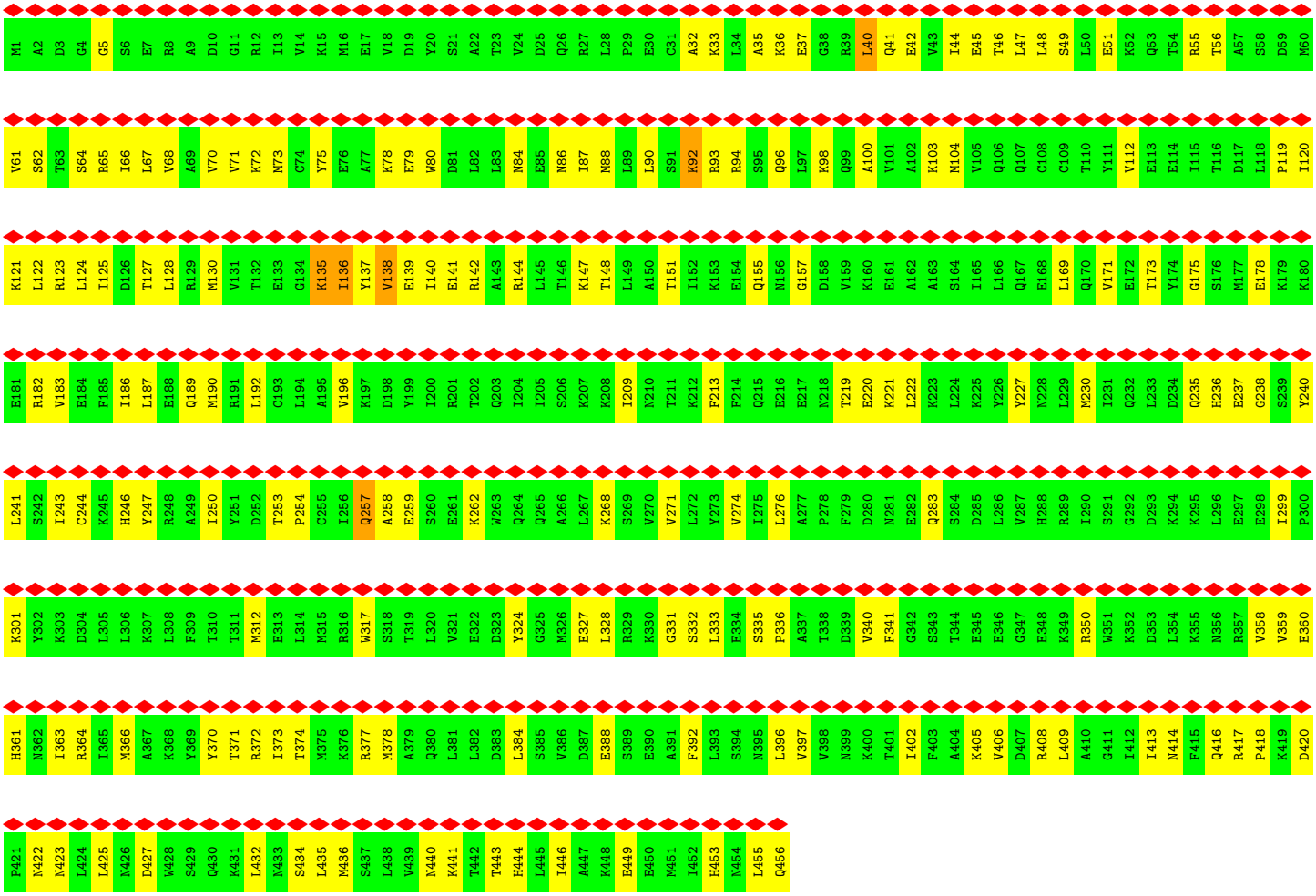






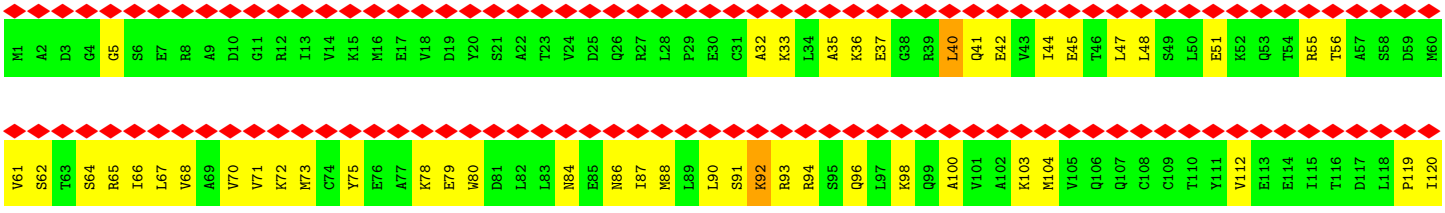
• Molecule 3: 26S proteasome non-ATPase regulatory subunit 12

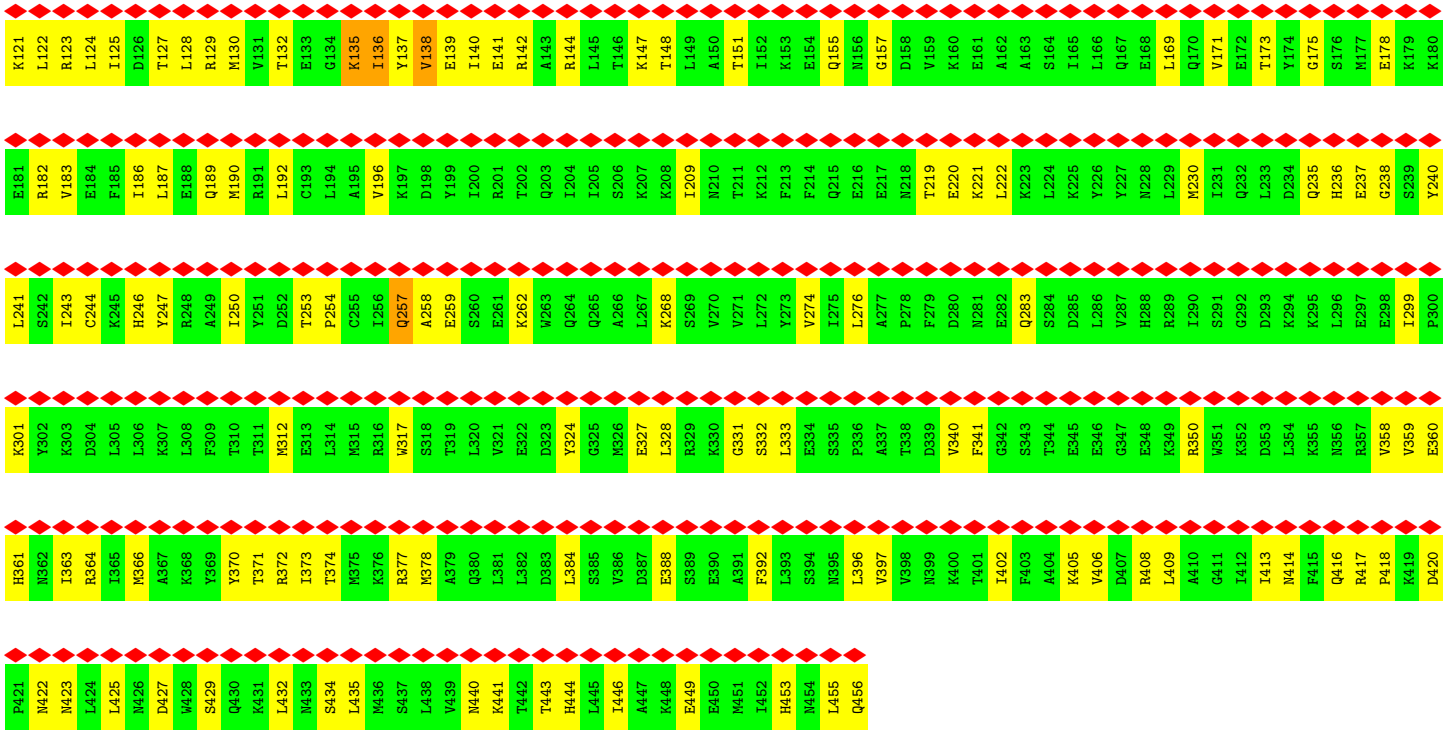
Chain AW:



• Molecule 3: 26S proteasome non-ATPase regulatory subunit 12

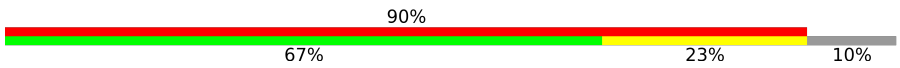
Chain BW:

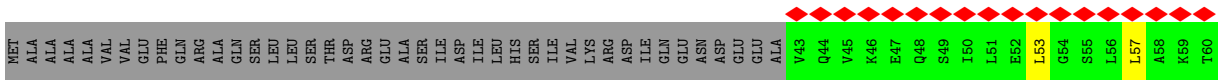


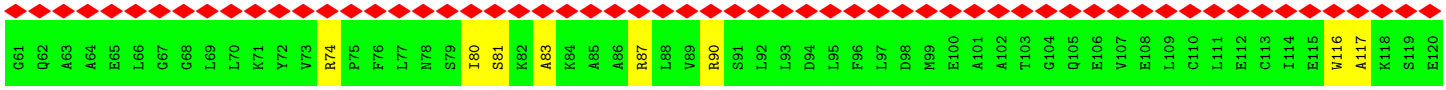


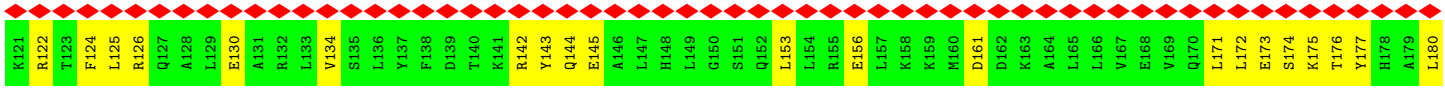
• Molecule 4: 26S proteasome non-ATPase regulatory subunit 11

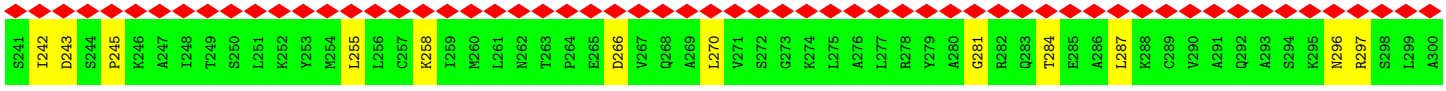
Chain AX:

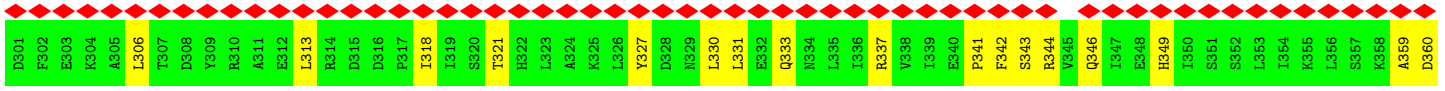


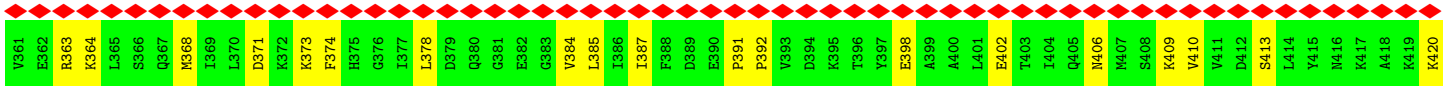






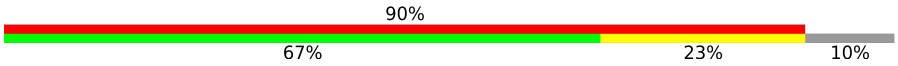


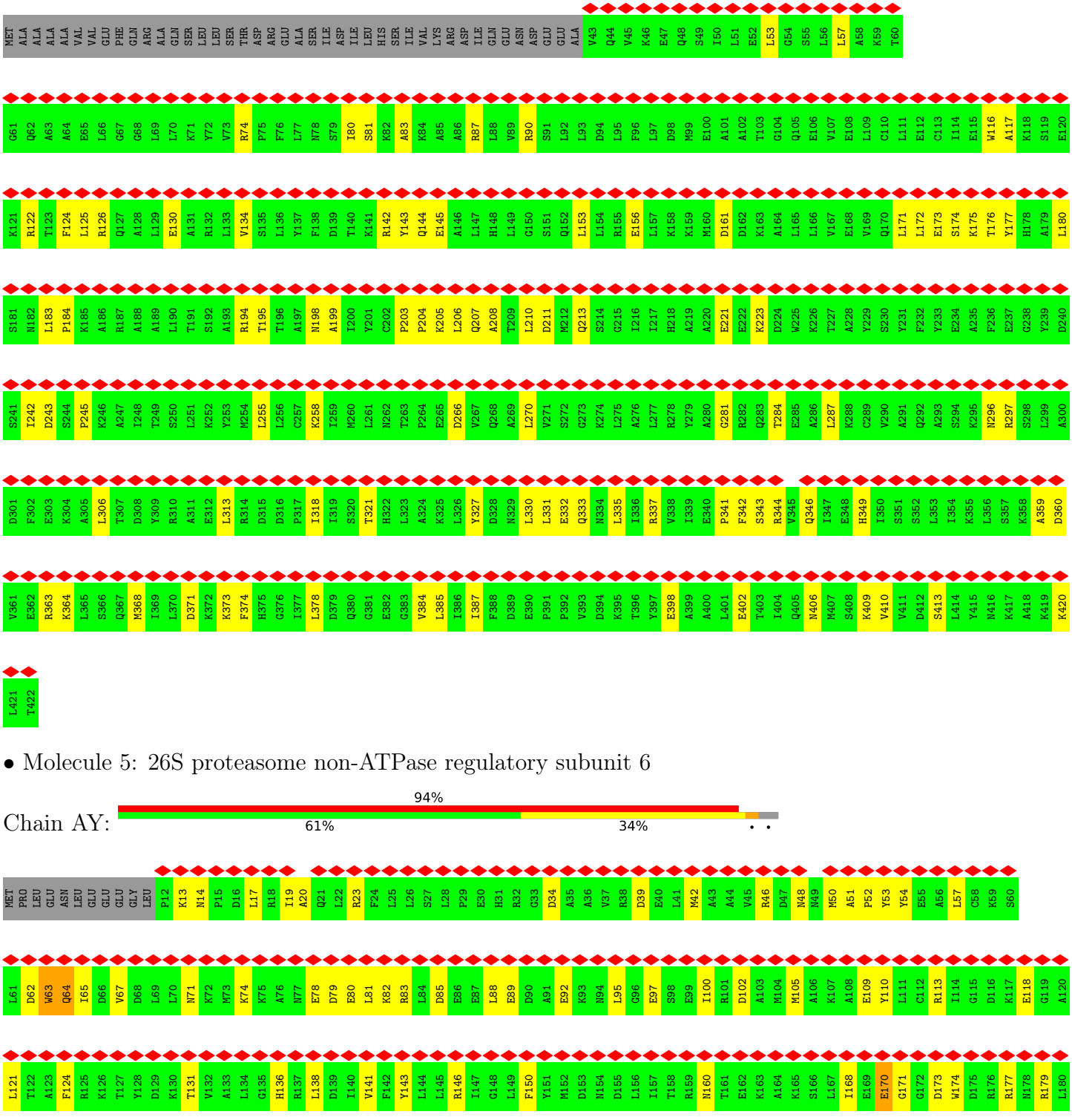




• Molecule 4: 26S proteasome non-ATPase regulatory subunit 11

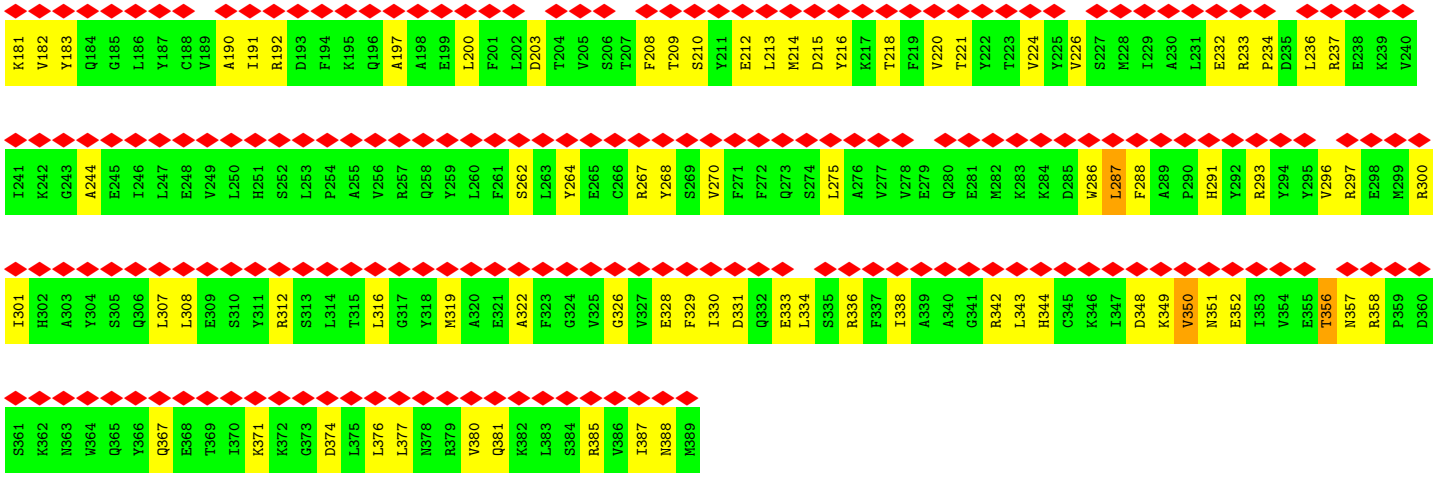
Chain BX:





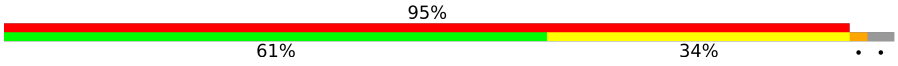
• Molecule 5: 26S proteasome non-ATPase regulatory subunit 6

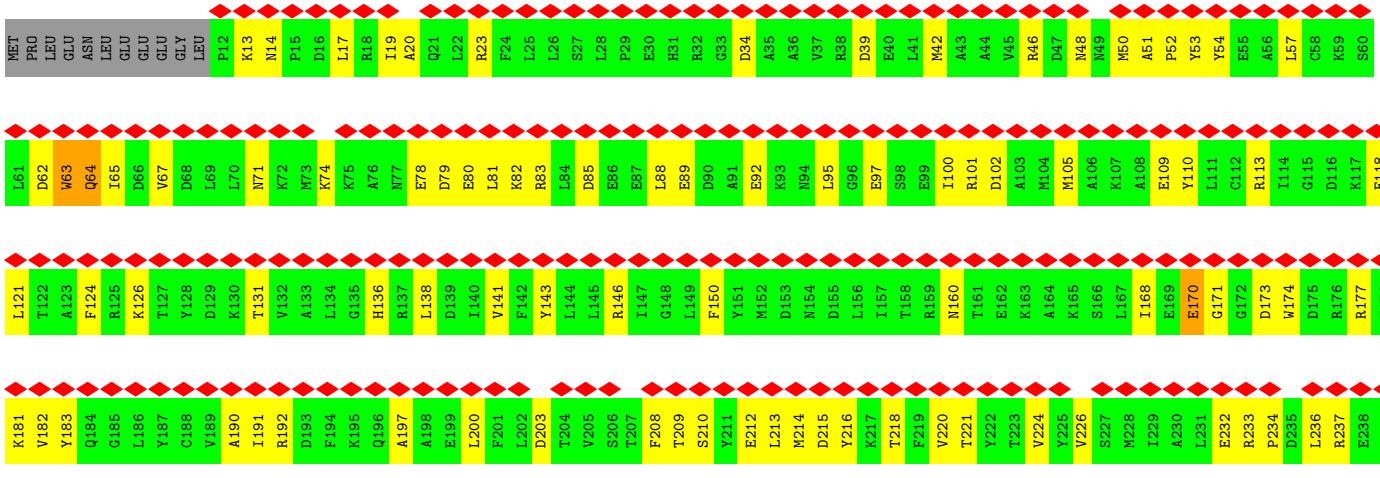
Chain AY:



• Molecule 5: 26S proteasome non-ATPase regulatory subunit 6

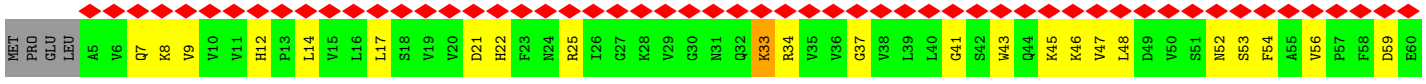
Chain BY:

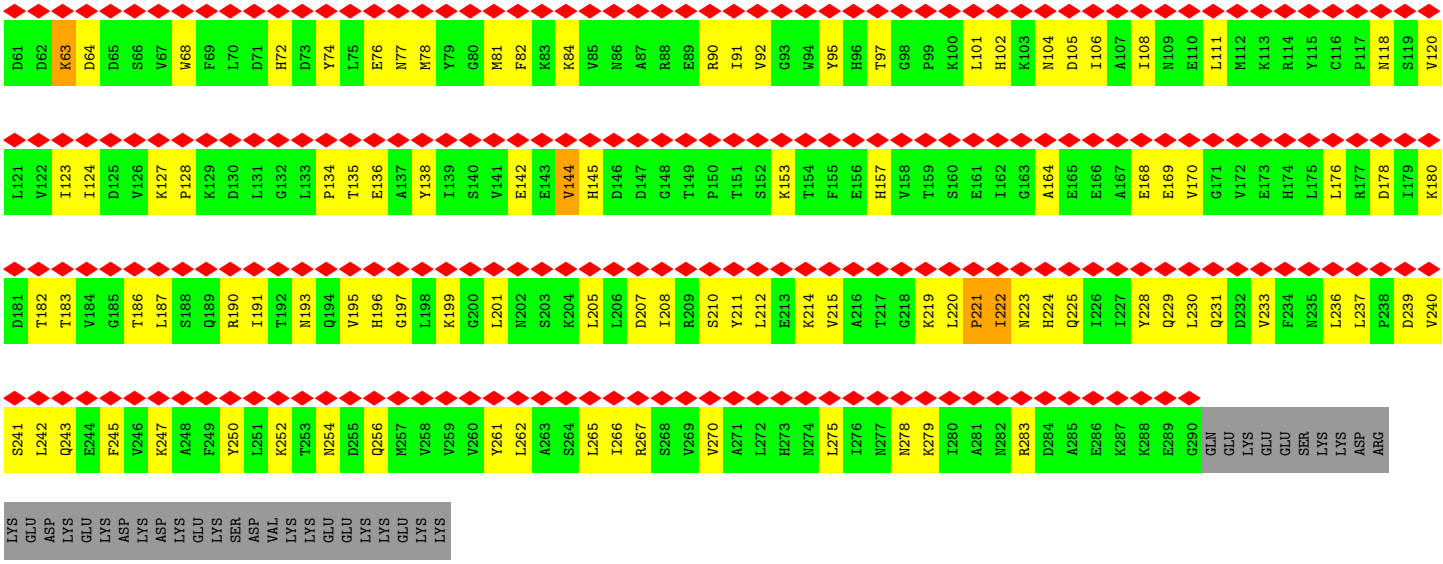




• Molecule 6: 26S proteasome non-ATPase regulatory subunit 7

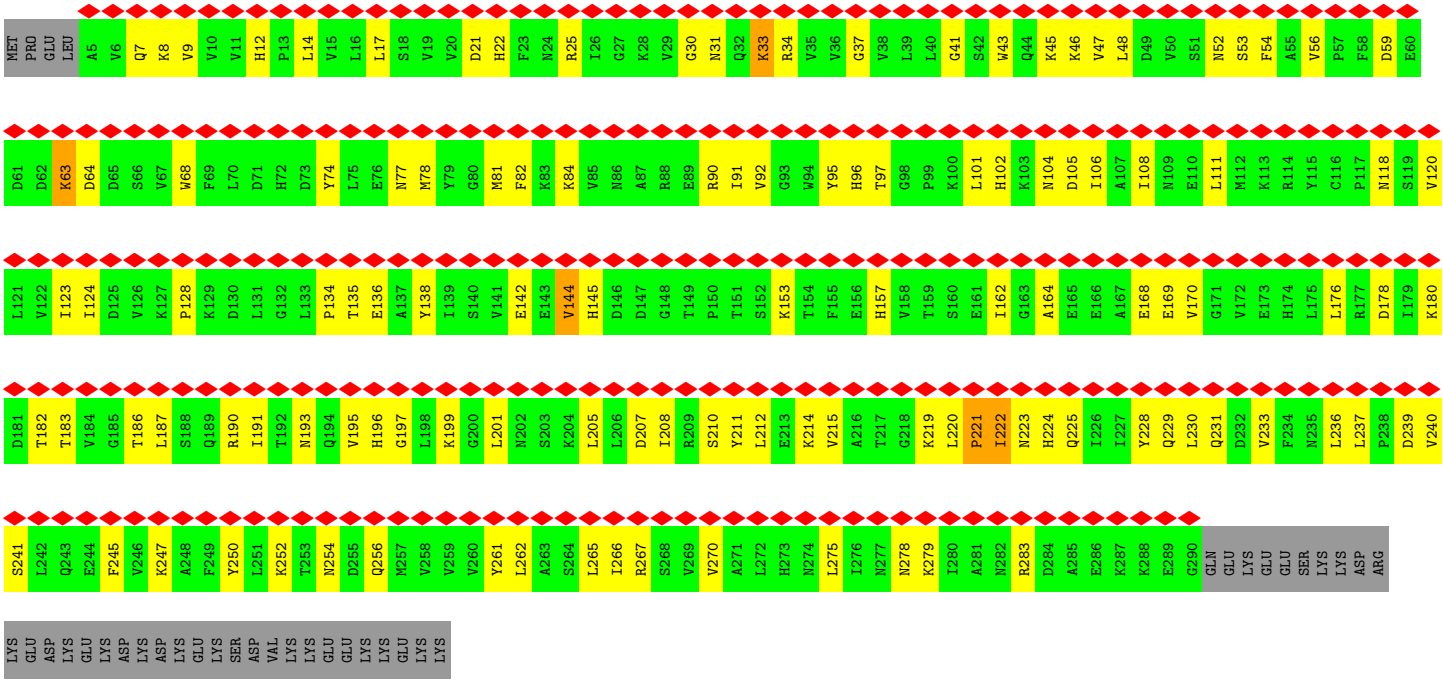
Chain AZ:





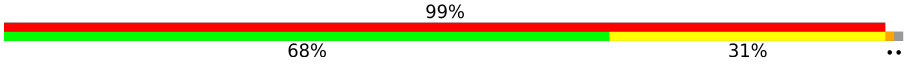
• Molecule 6: 26S proteasome non-ATPase regulatory subunit 7

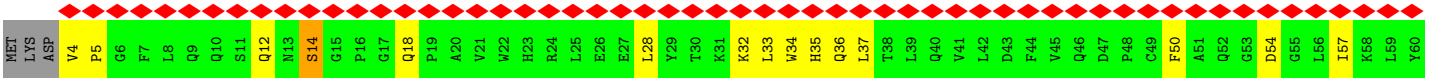
Chain BZ:

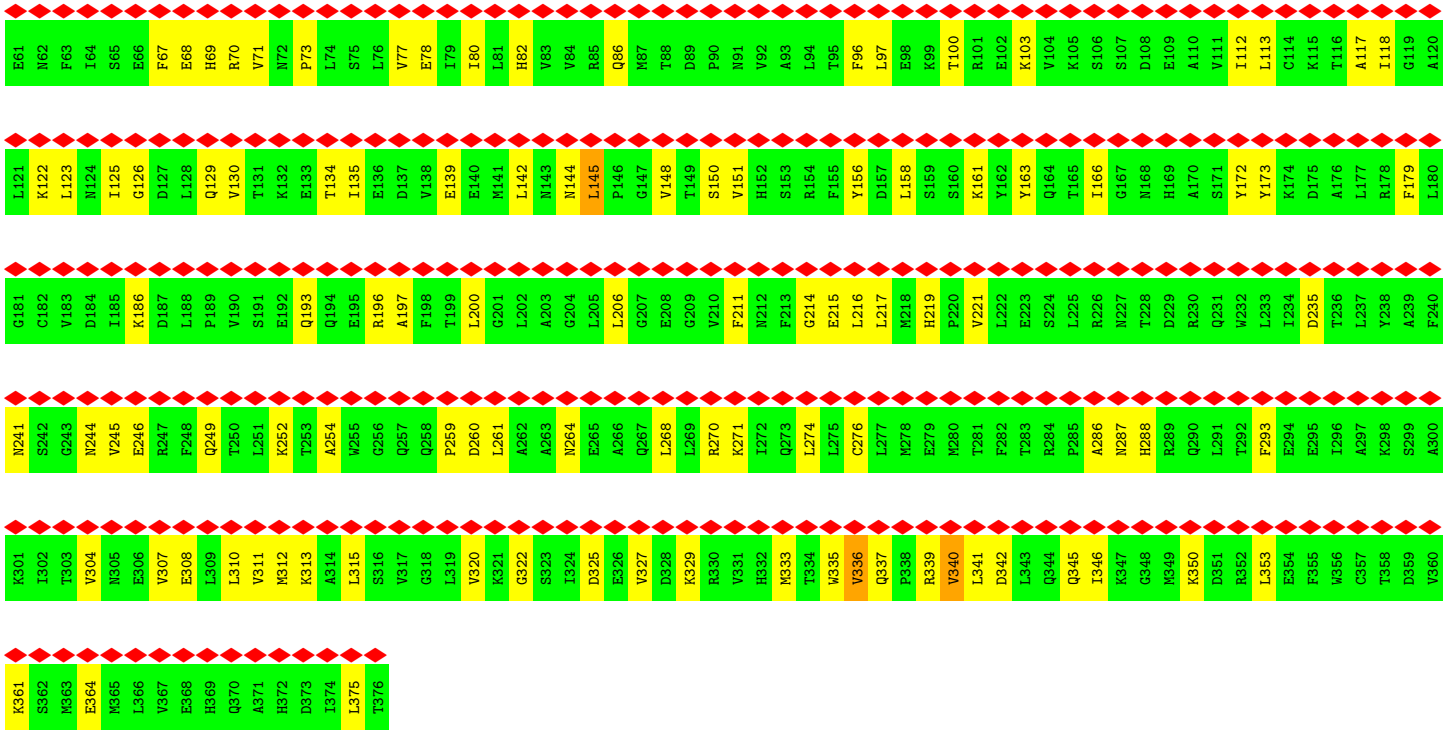


• Molecule 7: 26S proteasome non-ATPase regulatory subunit 13

Chain Aa:

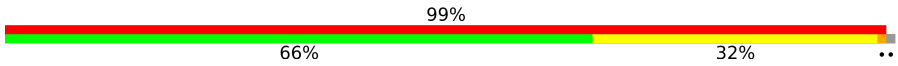


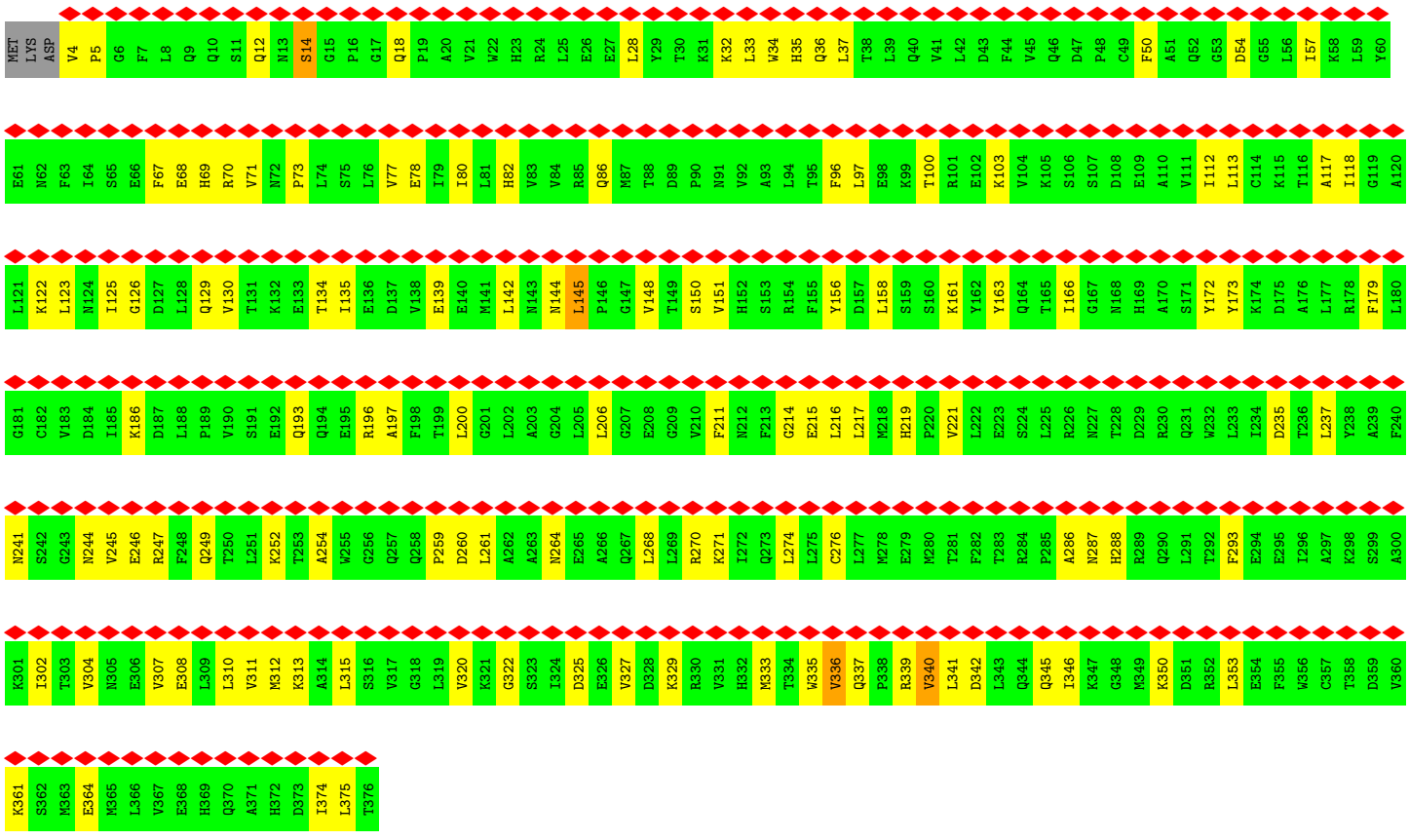




• Molecule 7: 26S proteasome non-ATPase regulatory subunit 13

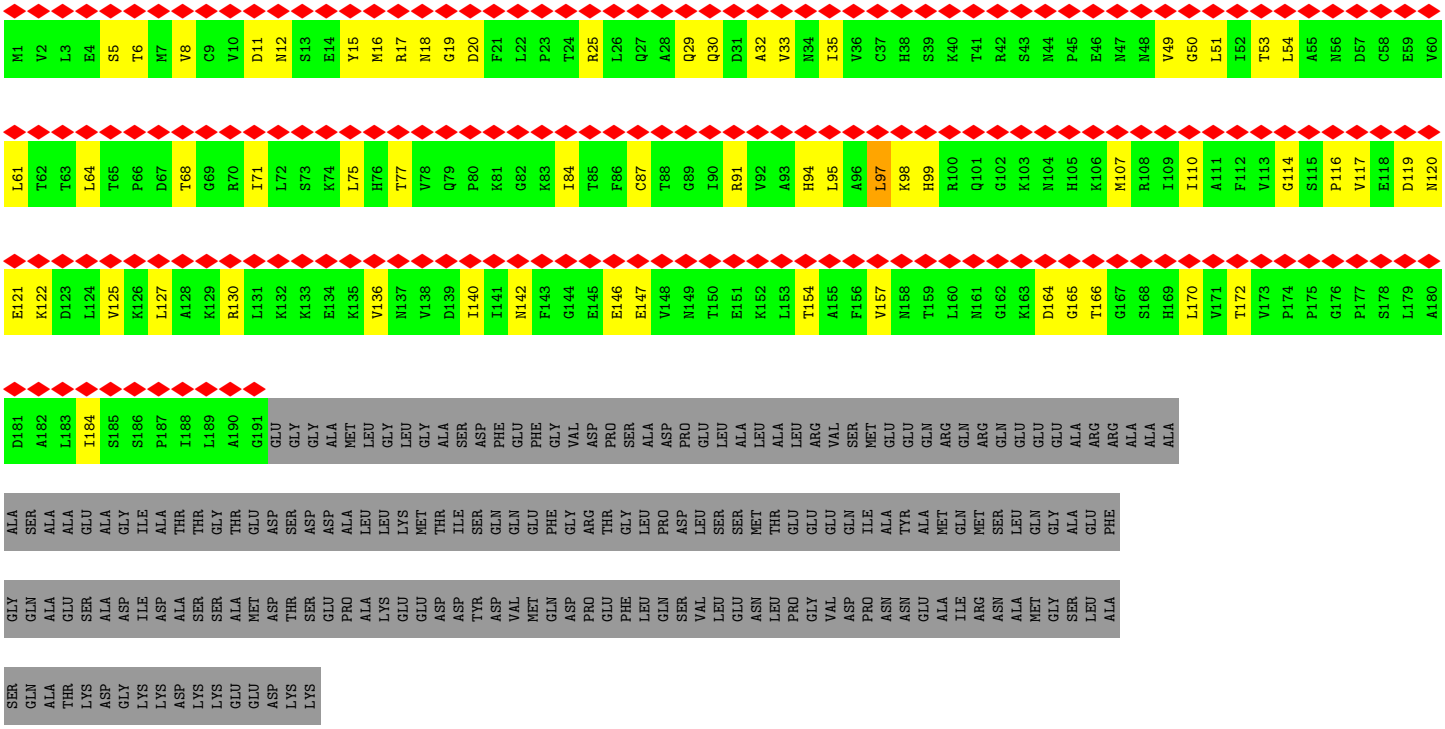
Chain Ba:





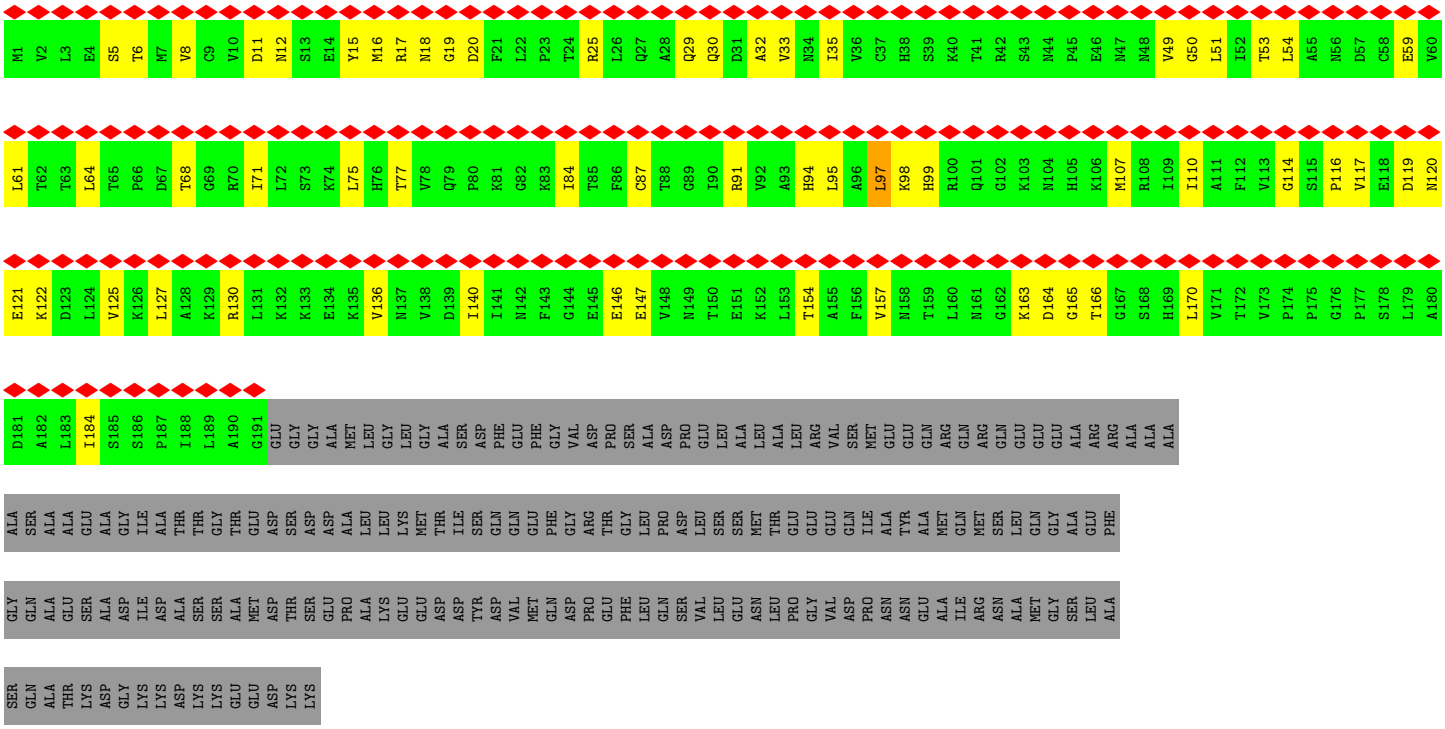
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 4

Chain Ab:



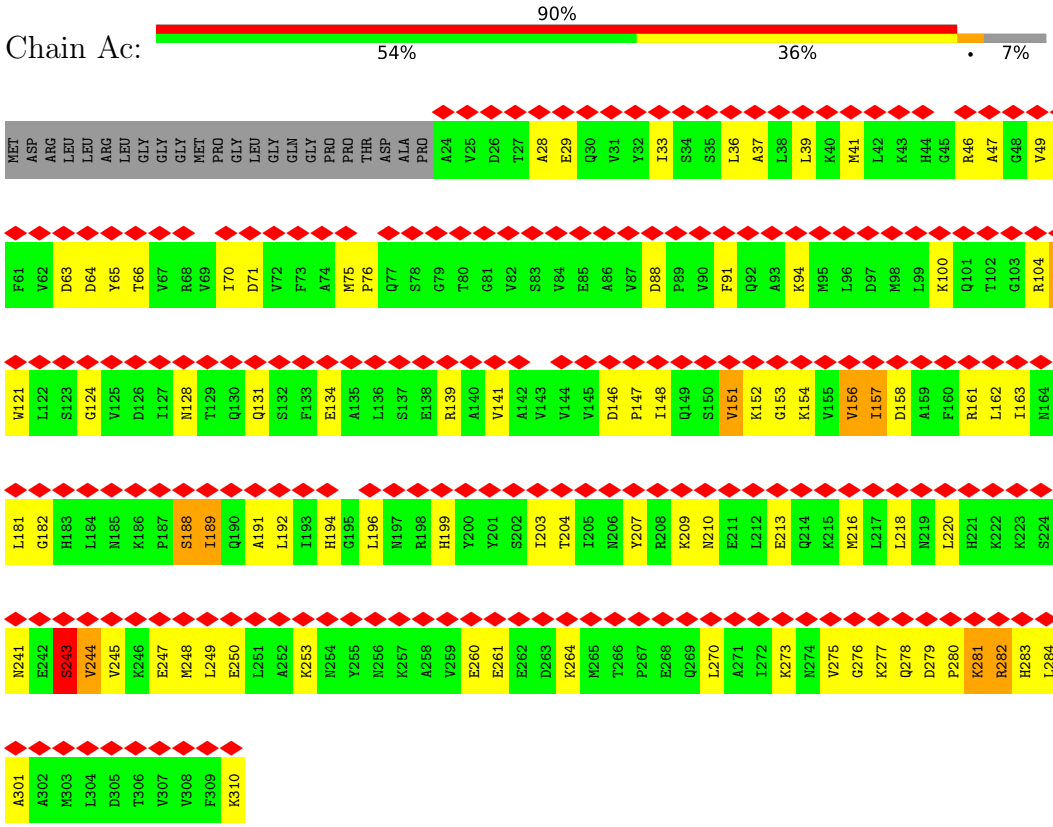
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 4

Chain Bb:



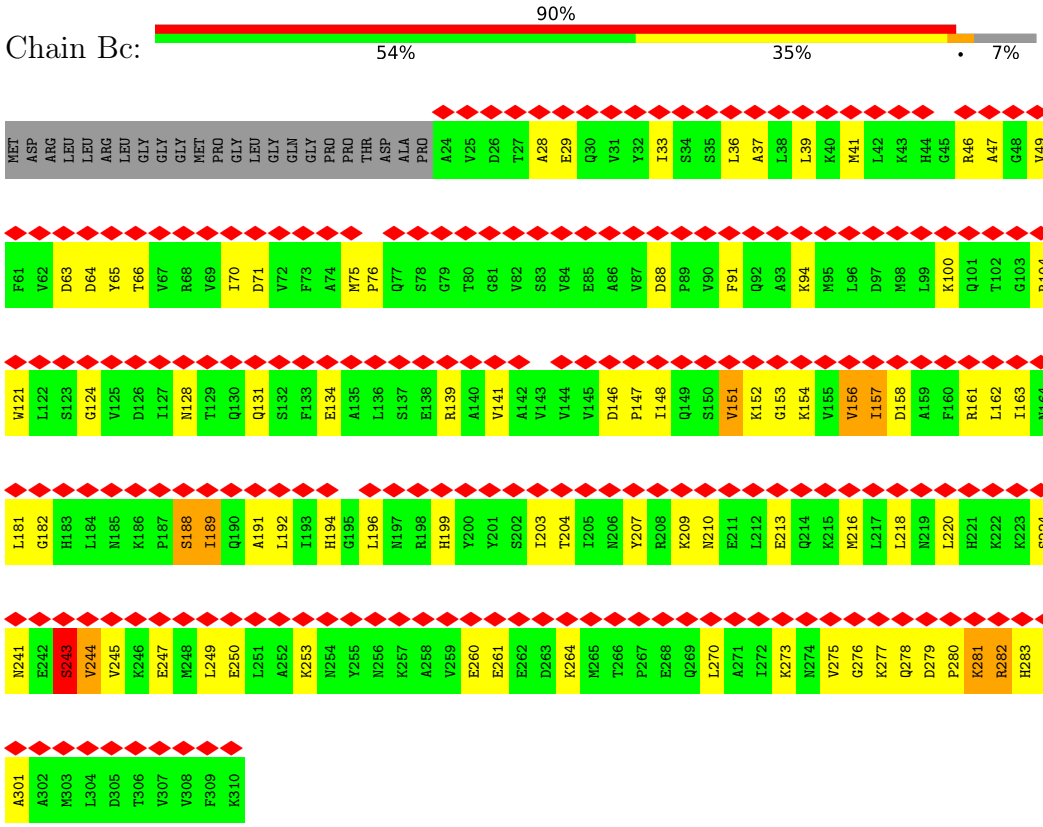
• Molecule 9: 26S proteasome non-ATPase regulatory subunit 14

Chain Ac:



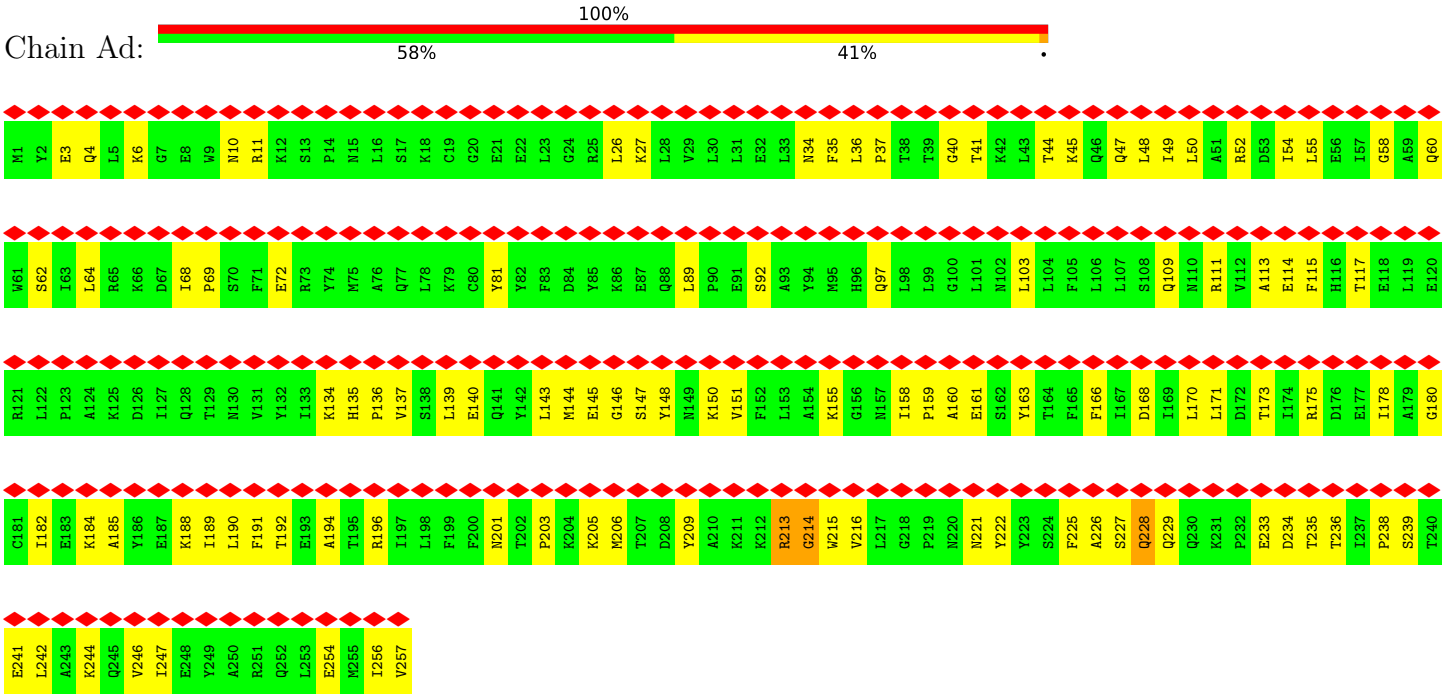
• Molecule 9: 26S proteasome non-ATPase regulatory subunit 14

Chain Bc:



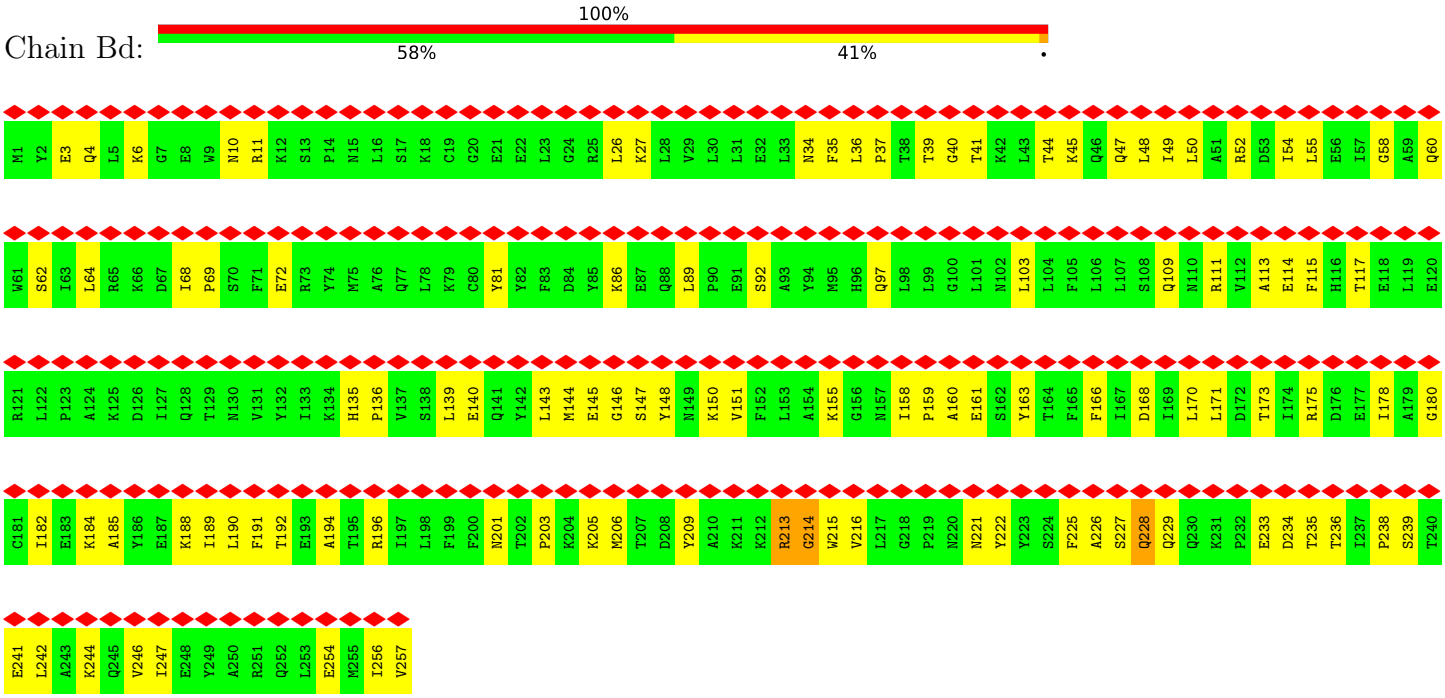
• Molecule 10: 26S proteasome non-ATPase regulatory subunit 8

Chain Ad:



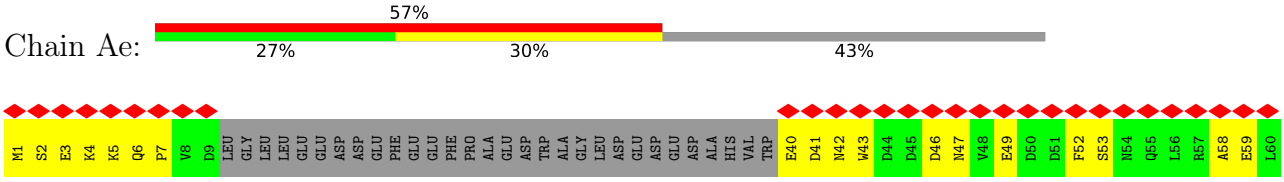
• Molecule 10: 26S proteasome non-ATPase regulatory subunit 8

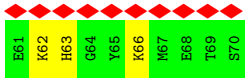
Chain Bd:



• Molecule 11: 26S proteasome complex subunit DSS1

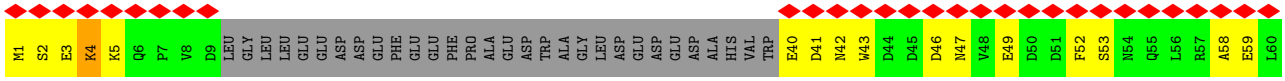
Chain Ae:

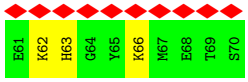




• Molecule 11: 26S proteasome complex subunit DSS1

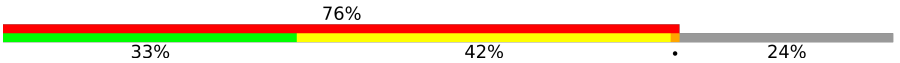
Chain Be:

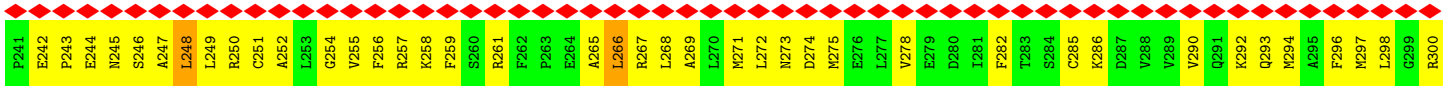


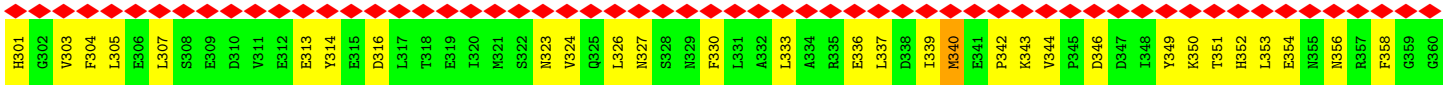


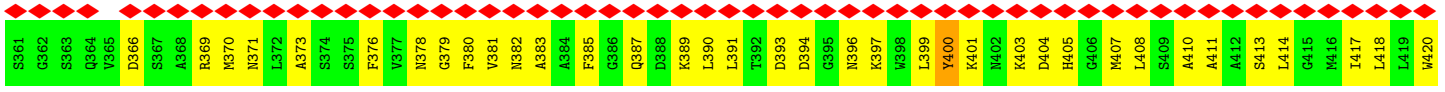
• Molecule 12: 26S proteasome non-ATPase regulatory subunit 2

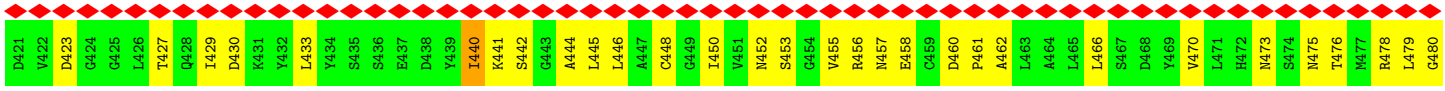
Chain Af:

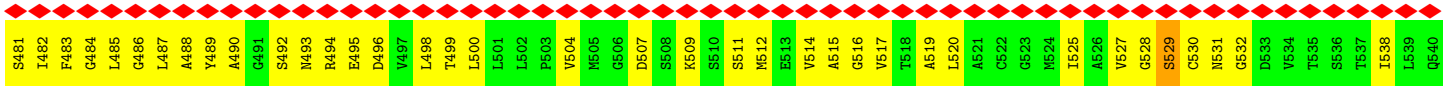


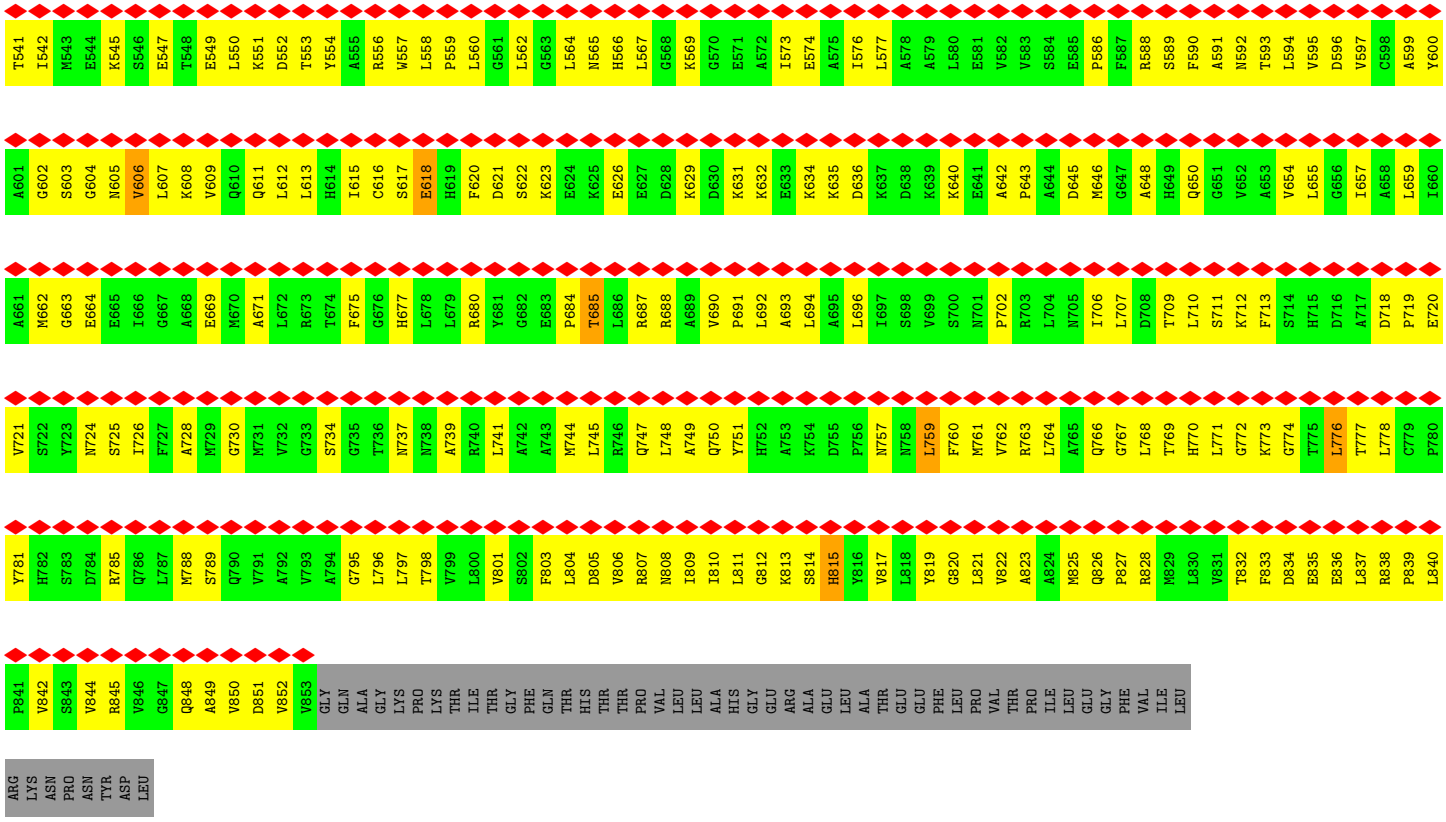






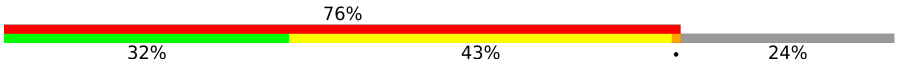


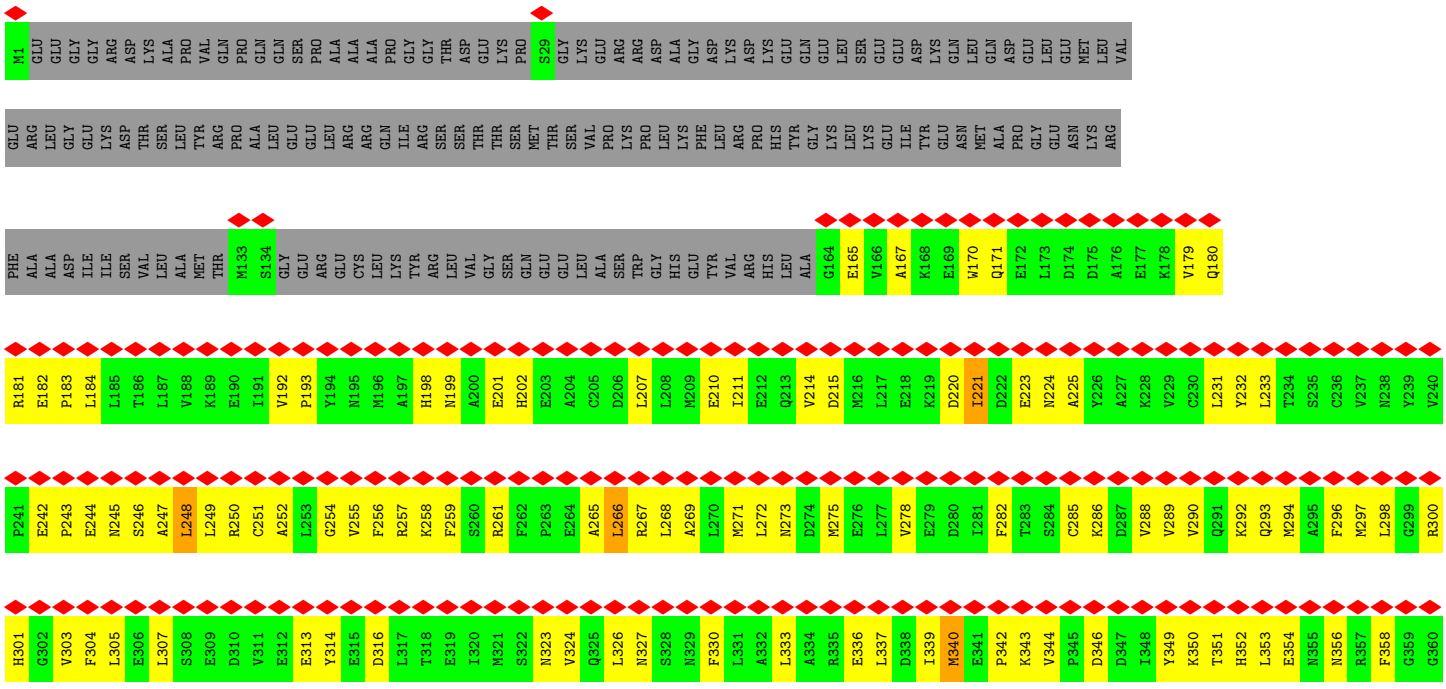


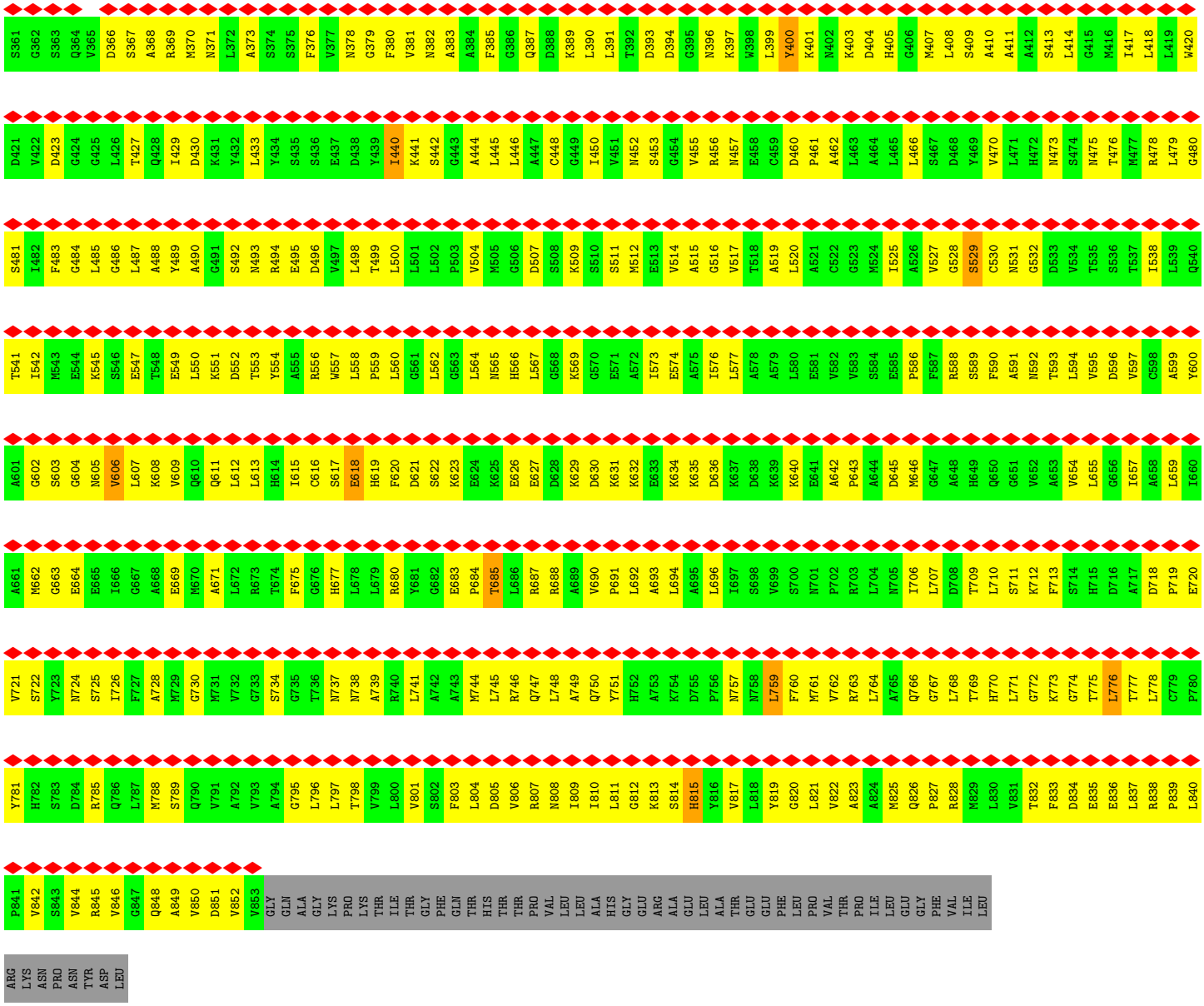


• Molecule 12: 26S proteasome non-ATPase regulatory subunit 2

Chain Bf:

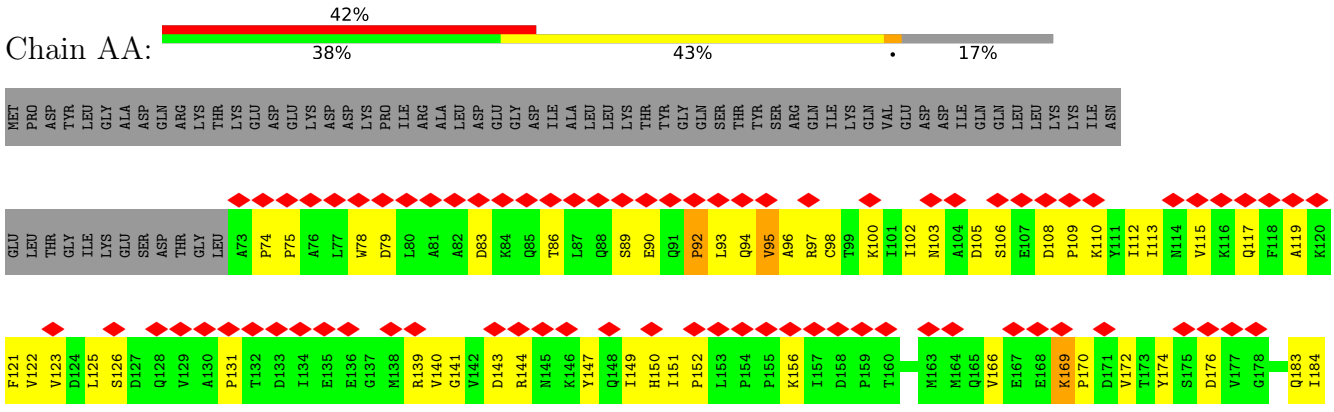


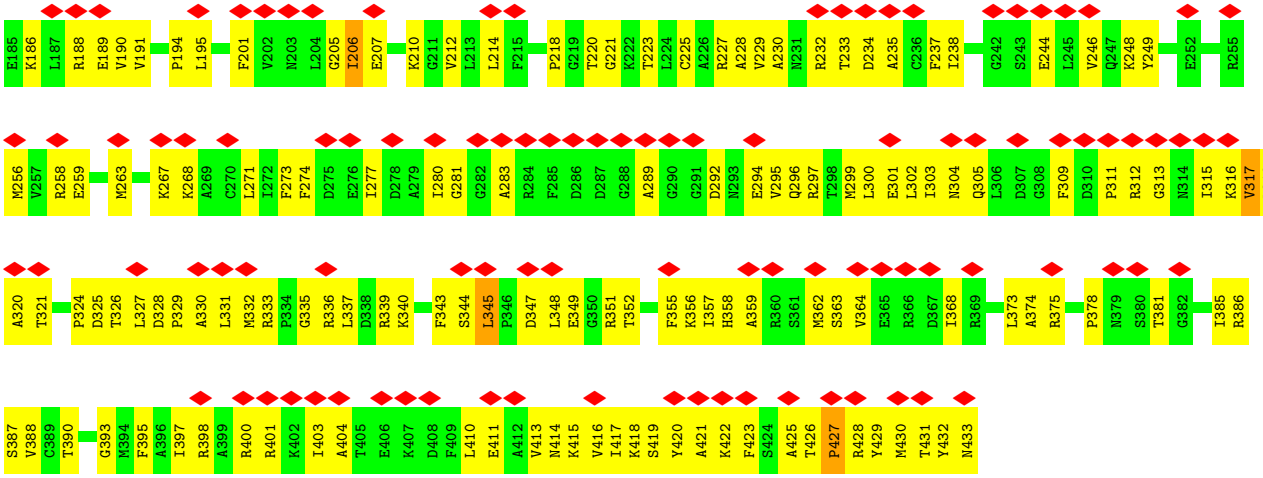




• Molecule 13: 26S protease regulatory subunit 7

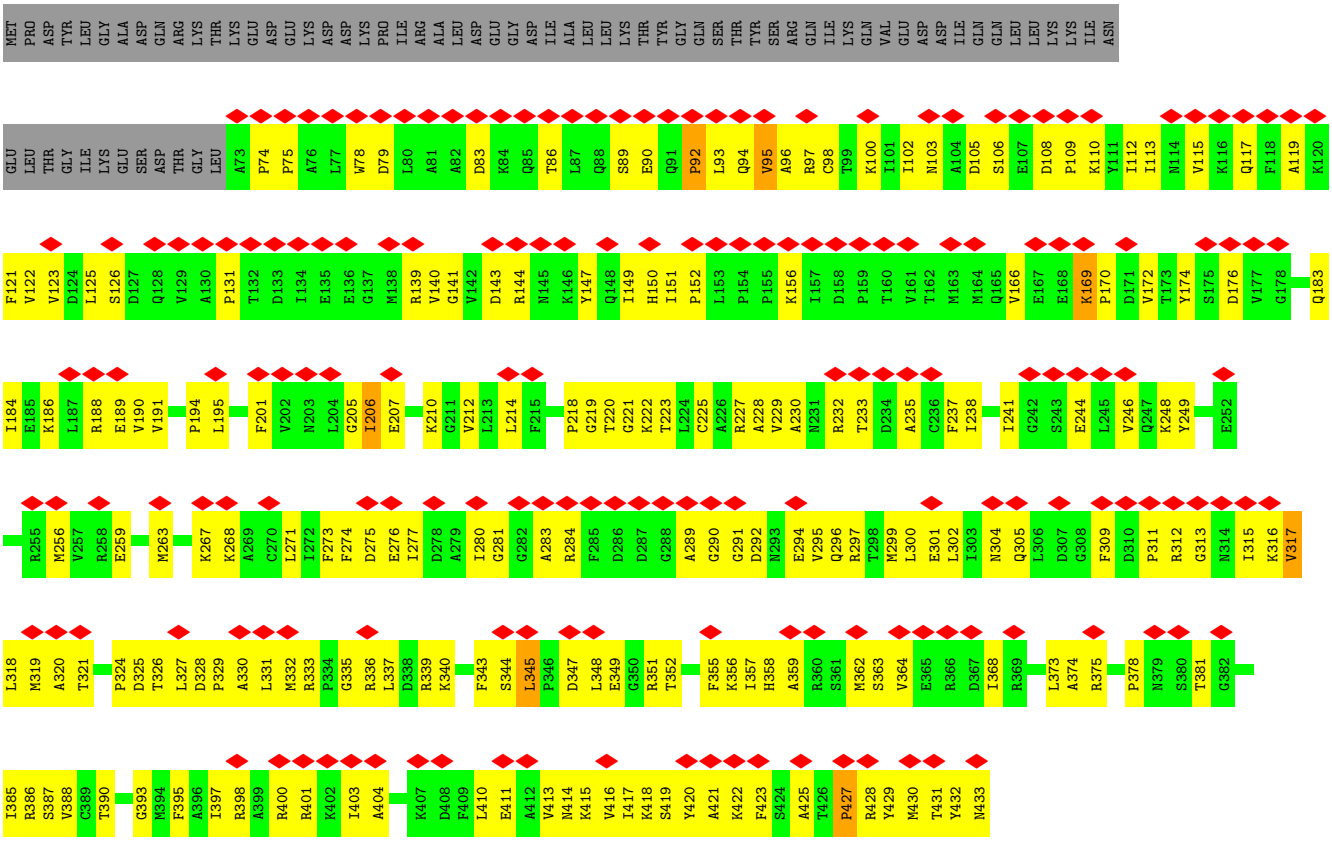
Chain AA:





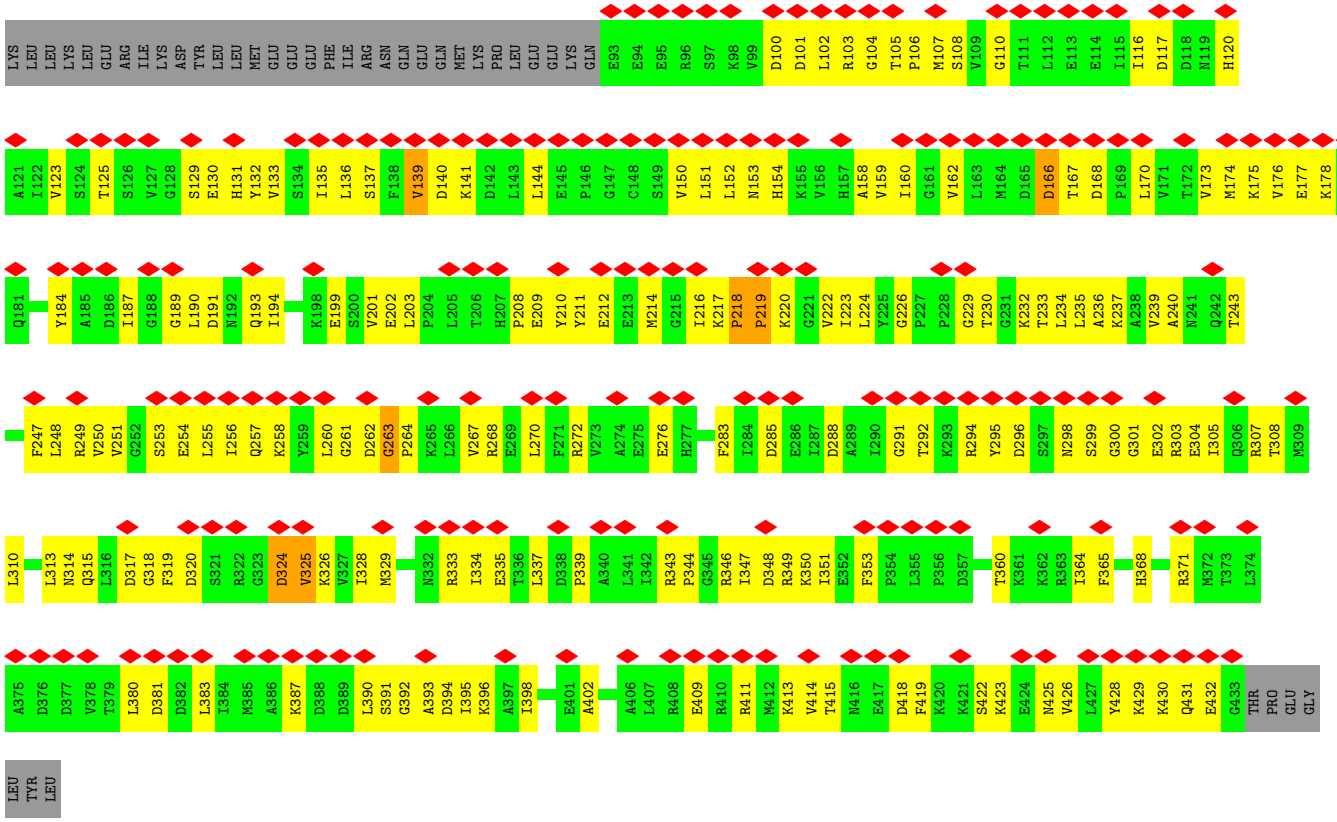
• Molecule 13: 26S protease regulatory subunit 7

Chain BA:



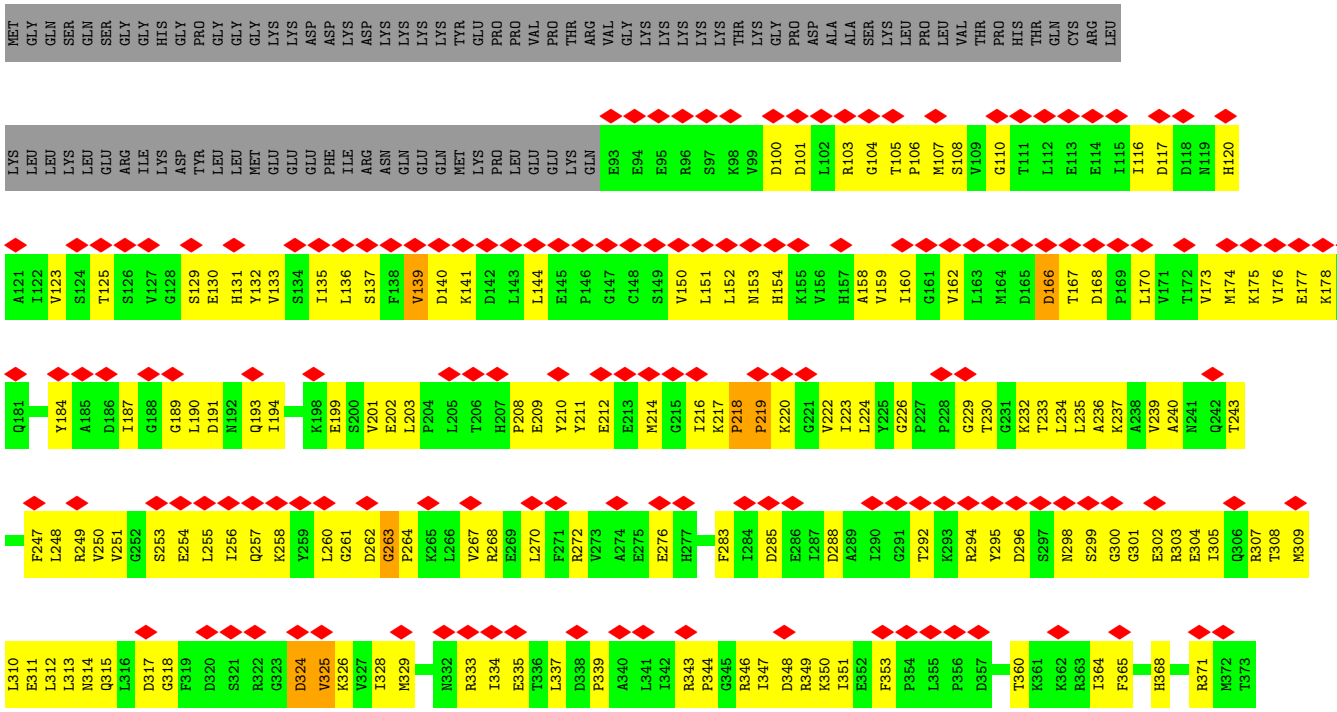
• Molecule 14: 26S protease regulatory subunit 4

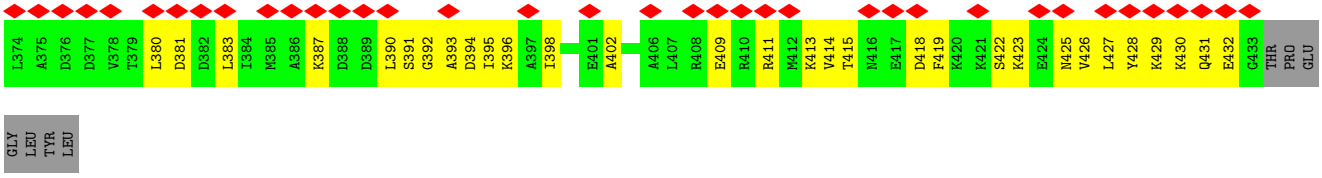
Chain AB:



• Molecule 14: 26S protease regulatory subunit 4

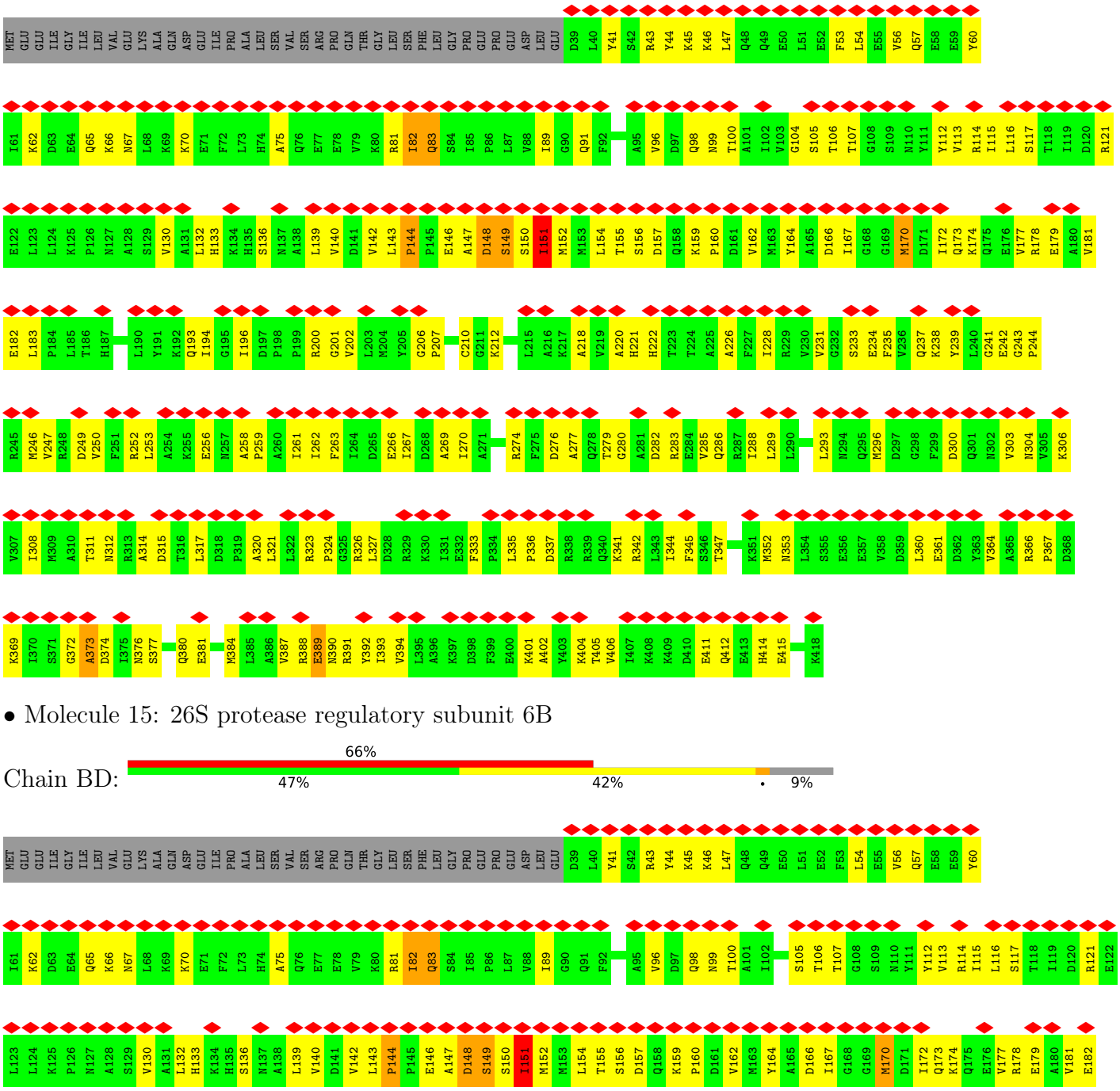
Chain BB:





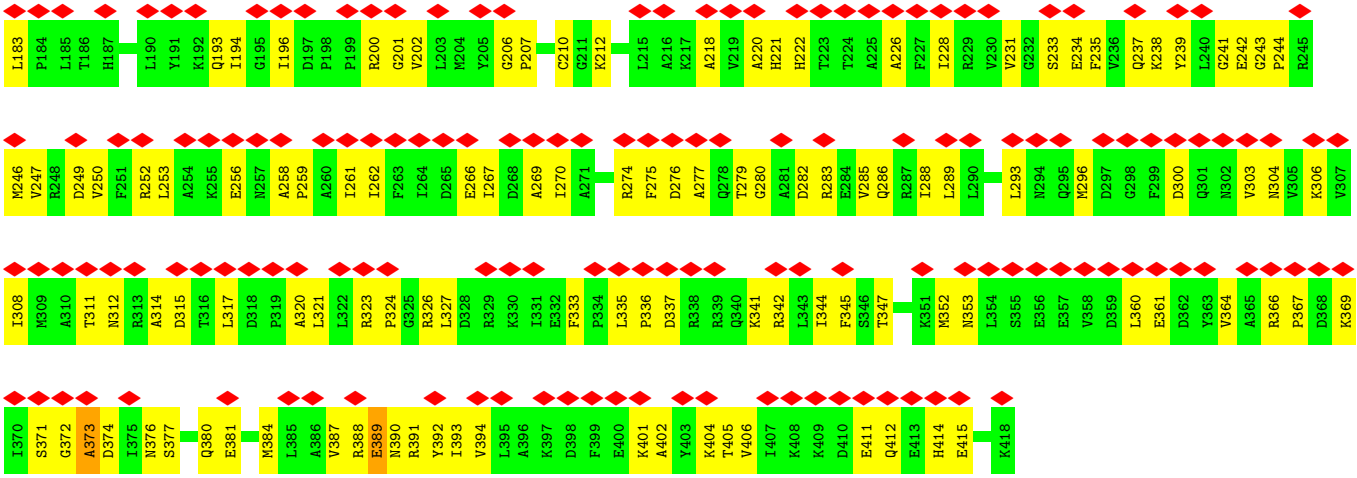
• Molecule 15: 26S protease regulatory subunit 6B

Chain AD:



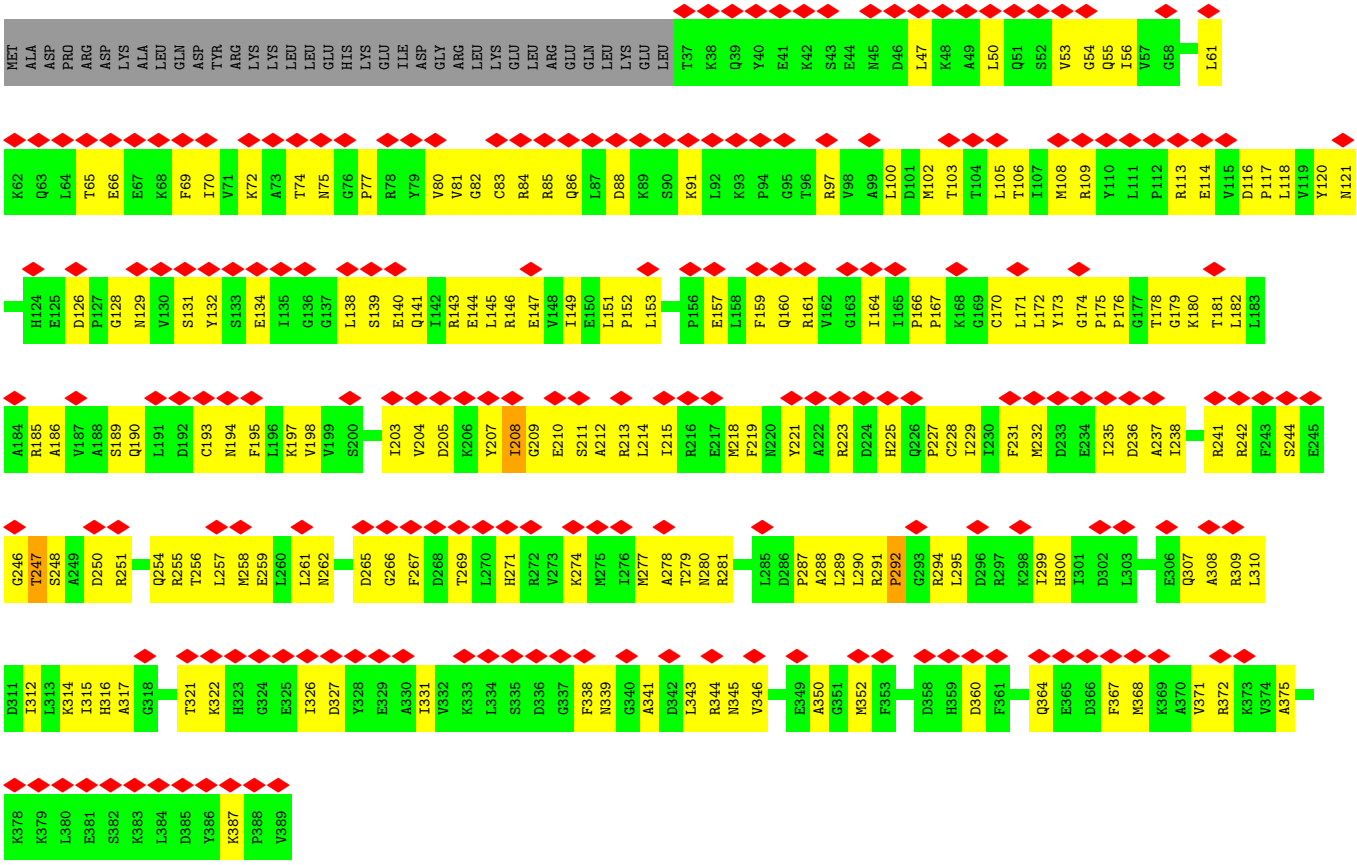
• Molecule 15: 26S protease regulatory subunit 6B

Chain BD:



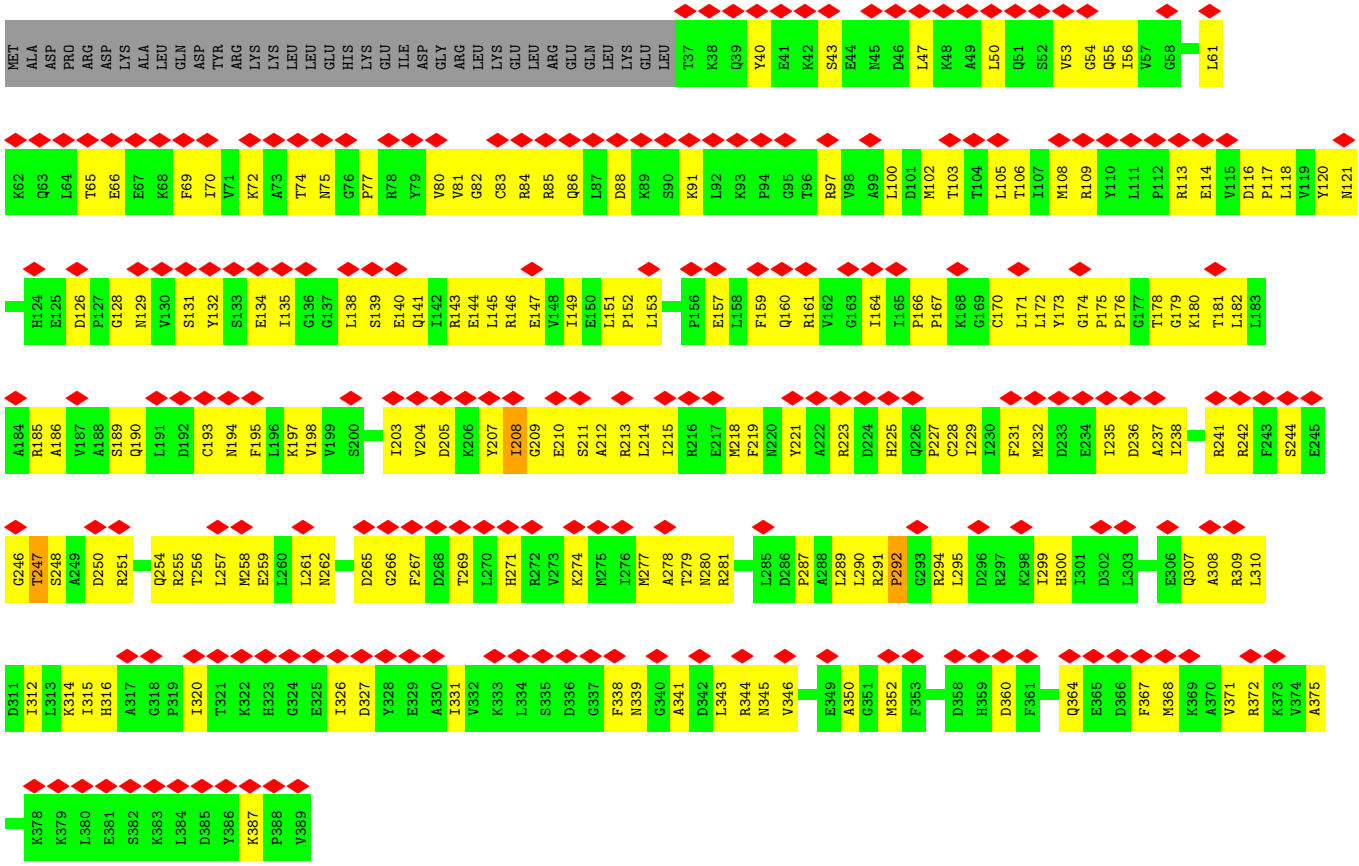
• Molecule 16: 26S protease regulatory subunit 10B

Chain AE:



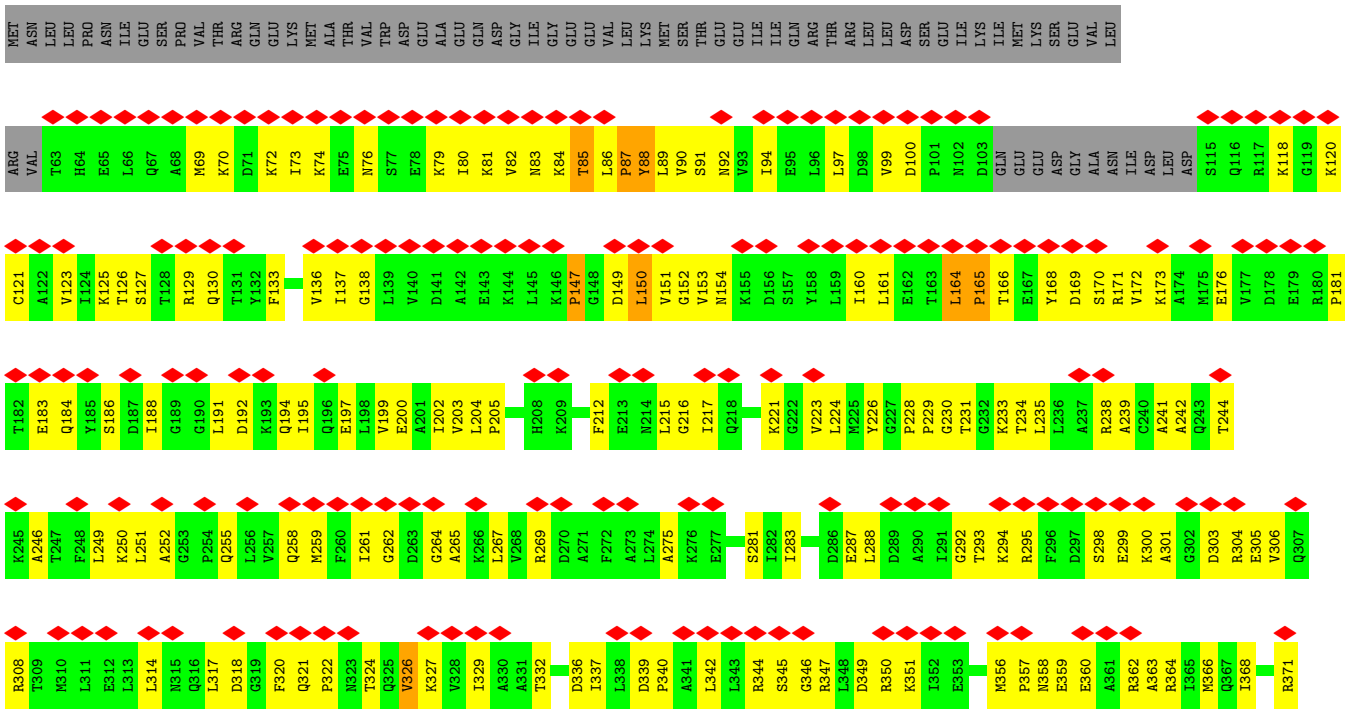
• Molecule 16: 26S protease regulatory subunit 10B

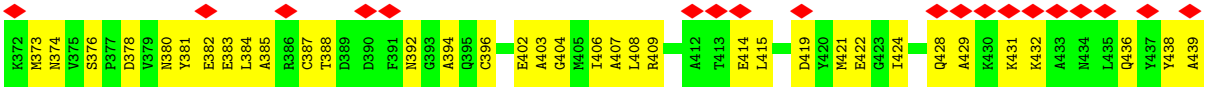
Chain BE:



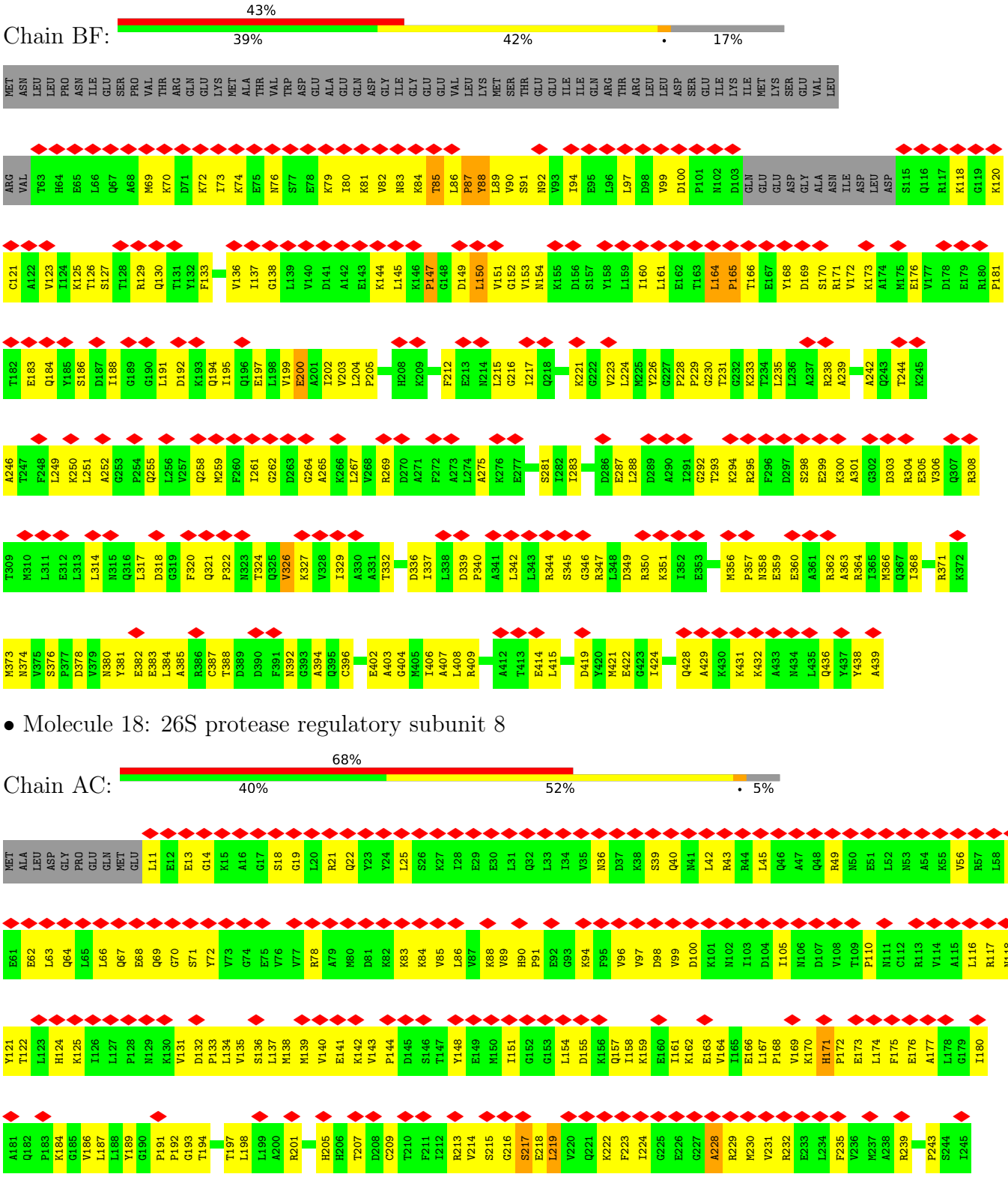
• Molecule 17: 26S protease regulatory subunit 6A

Chain AF:

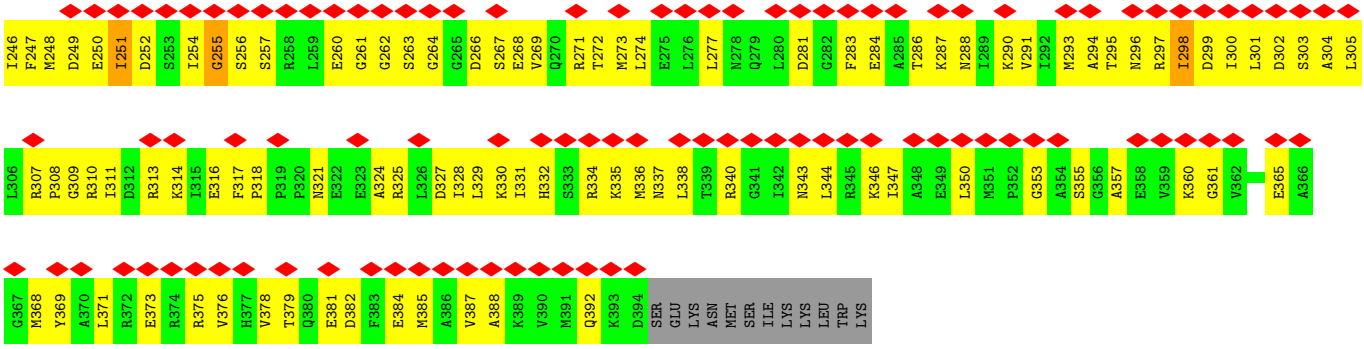




• Molecule 17: 26S protease regulatory subunit 6A

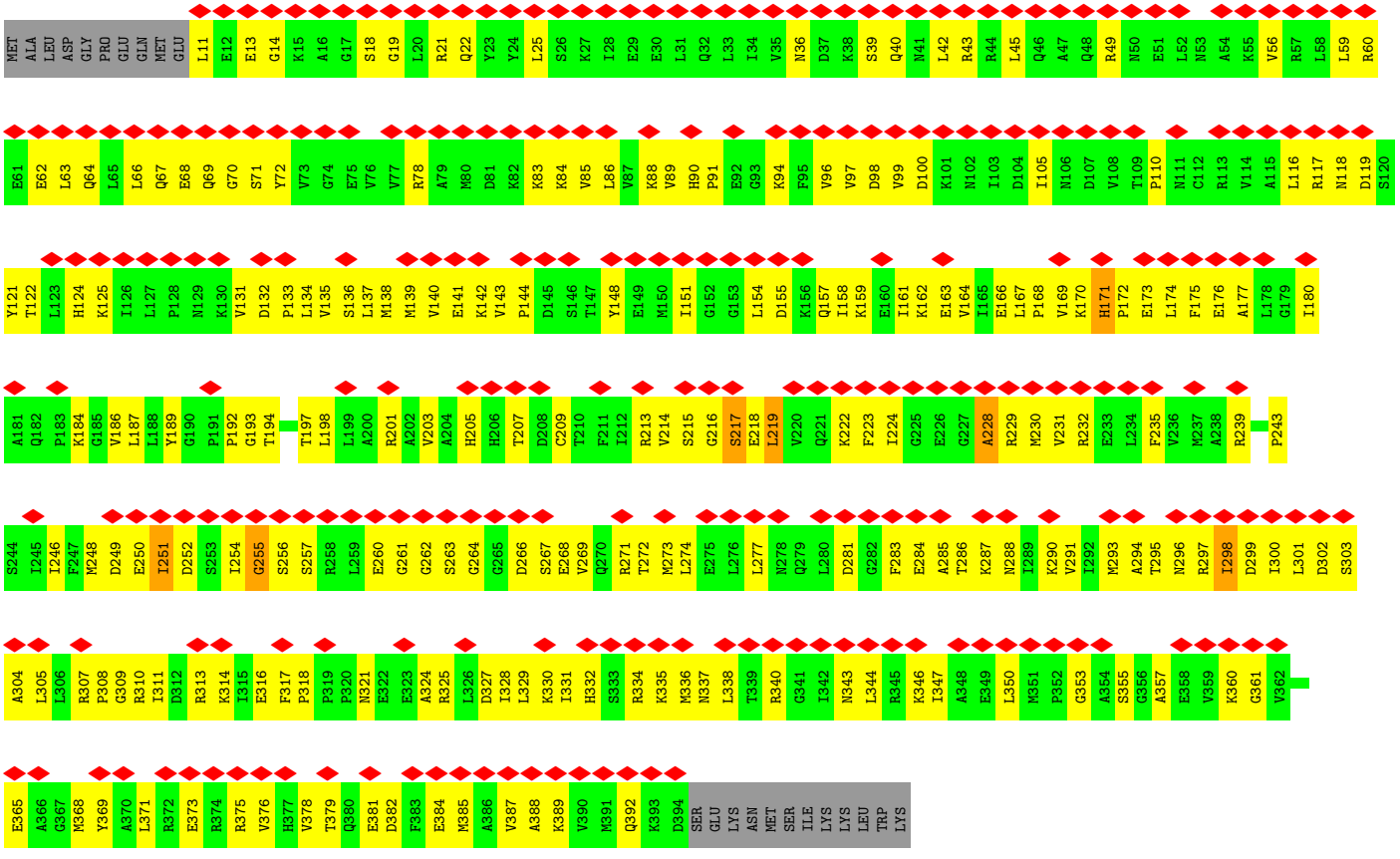


• Molecule 18: 26S protease regulatory subunit 8



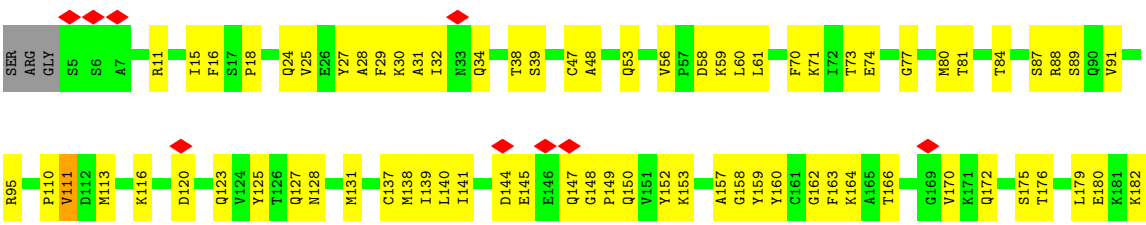
• Molecule 18: 26S protease regulatory subunit 8

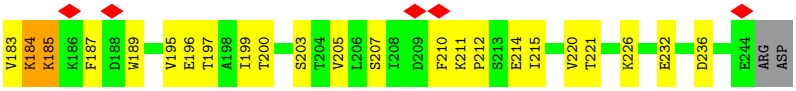
Chain BC:



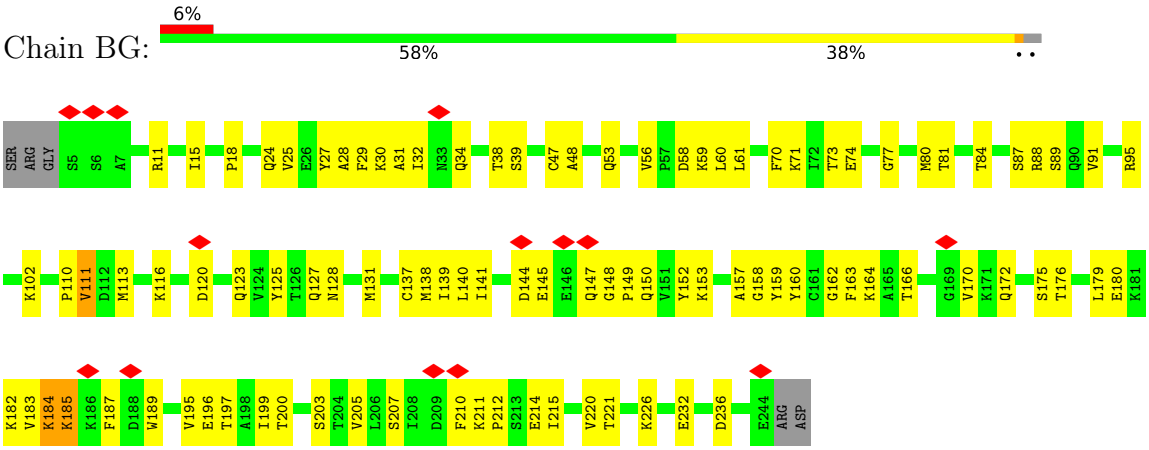
• Molecule 19: Proteasome subunit alpha type-6

Chain AG:

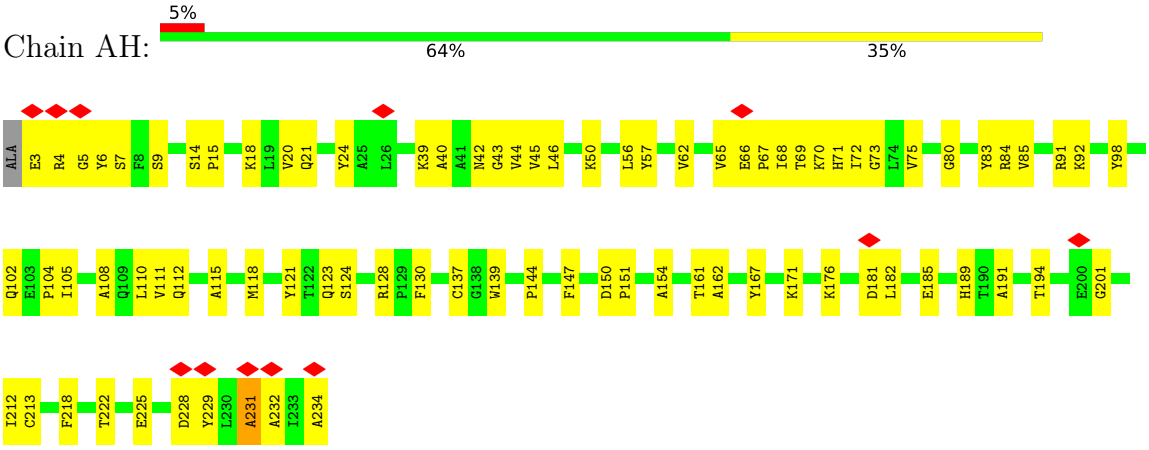




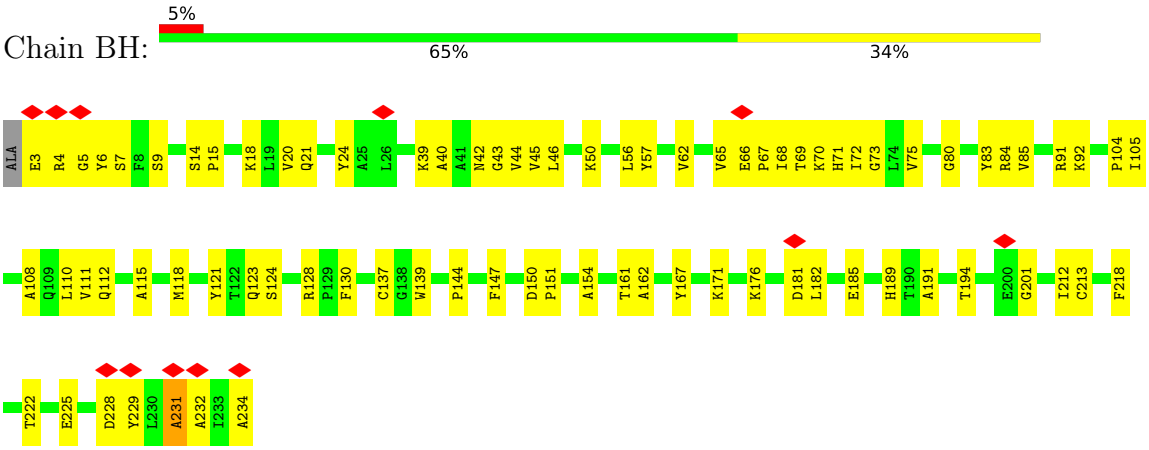
• Molecule 19: Proteasome subunit alpha type-6



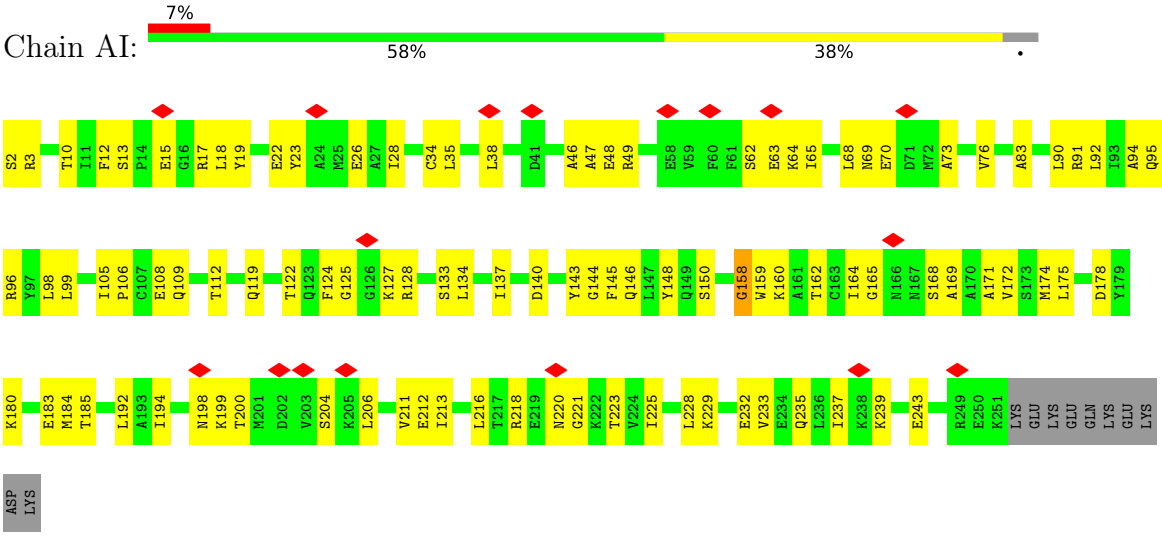
• Molecule 20: Proteasome subunit alpha type-2



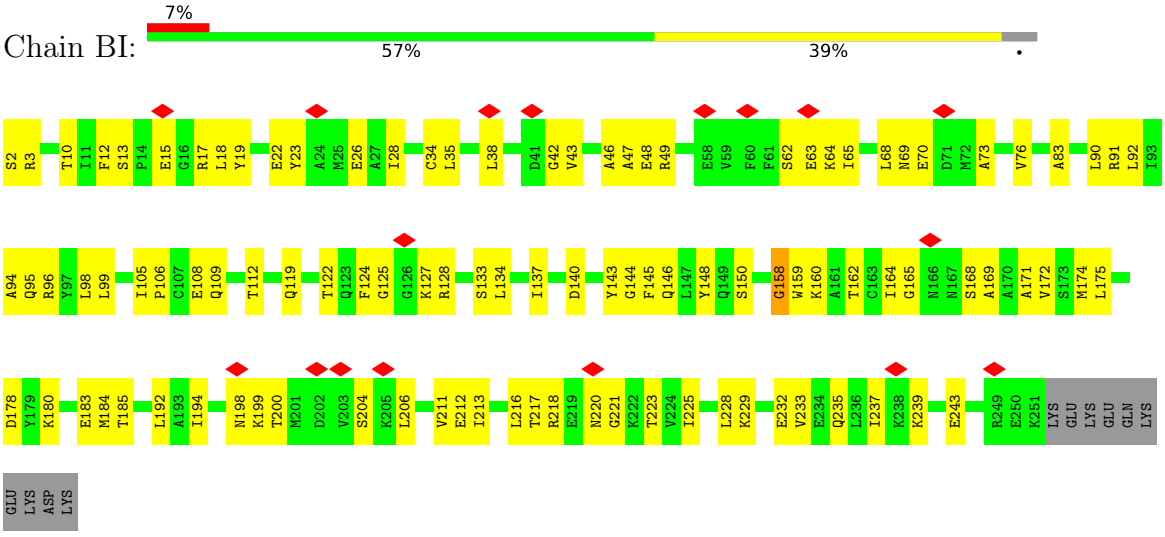
• Molecule 20: Proteasome subunit alpha type-2



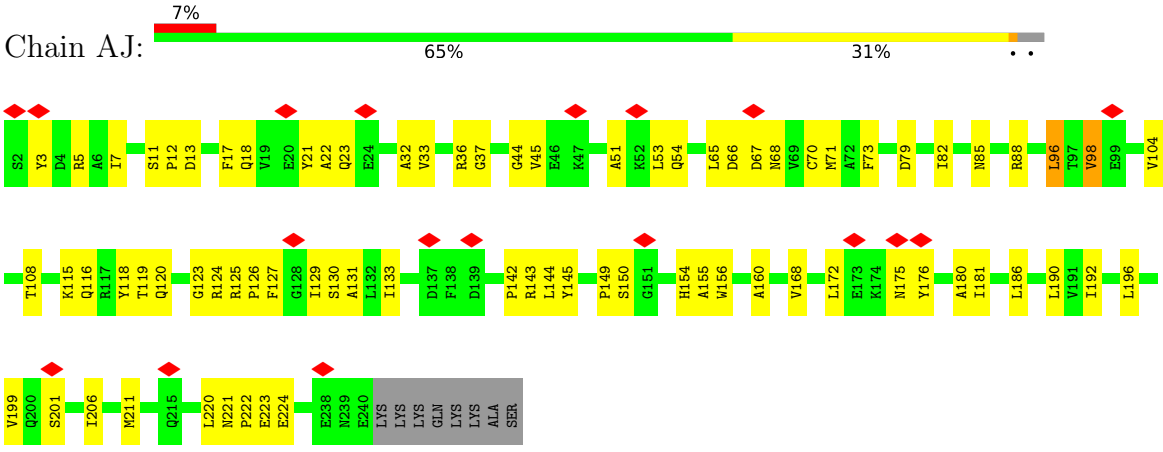
• Molecule 21: Proteasome subunit alpha type-4



• Molecule 21: Proteasome subunit alpha type-4

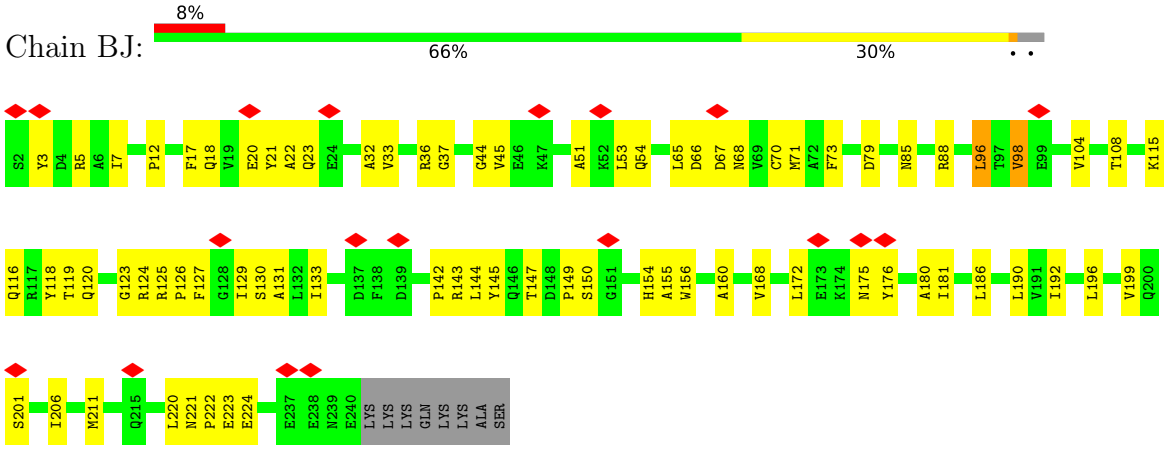


• Molecule 22: Proteasome subunit alpha type-7



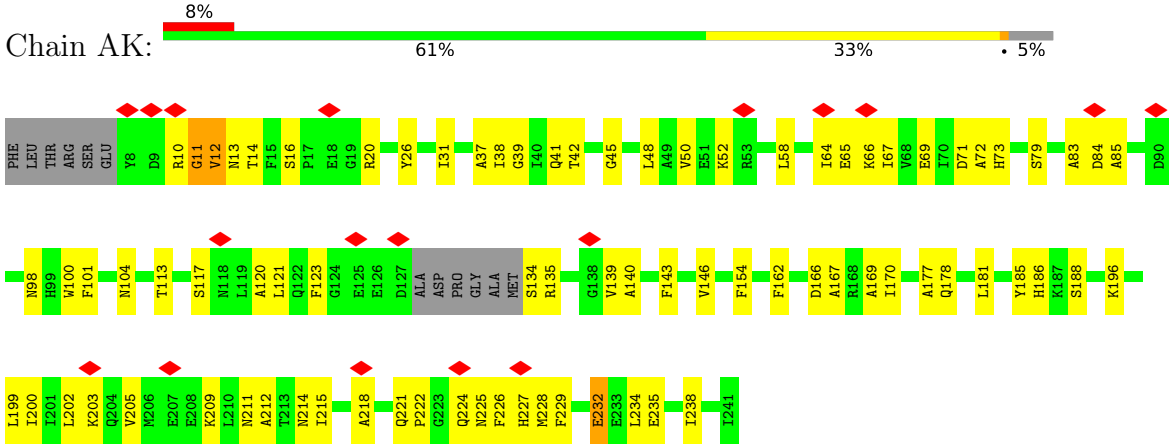
• Molecule 22: Proteasome subunit alpha type-7

Chain BJ:



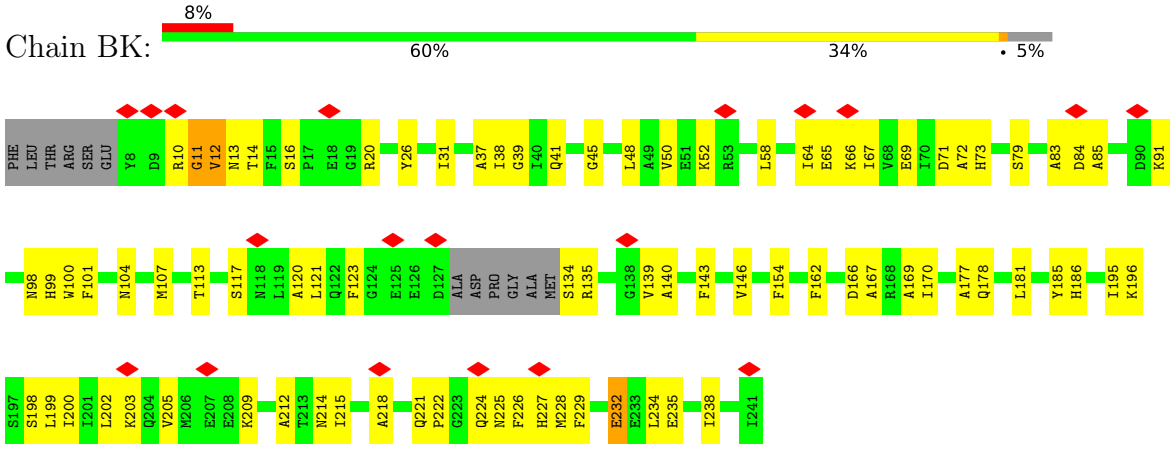
• Molecule 23: Proteasome subunit alpha type-5

Chain AK:



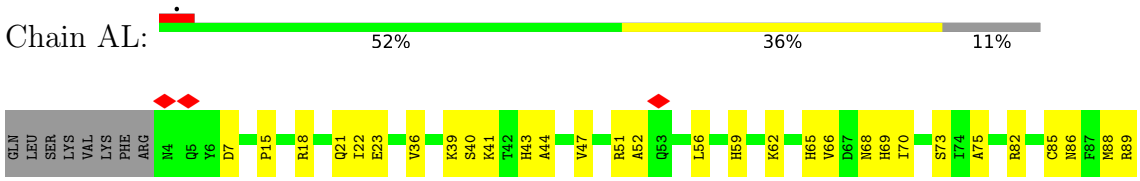
• Molecule 23: Proteasome subunit alpha type-5

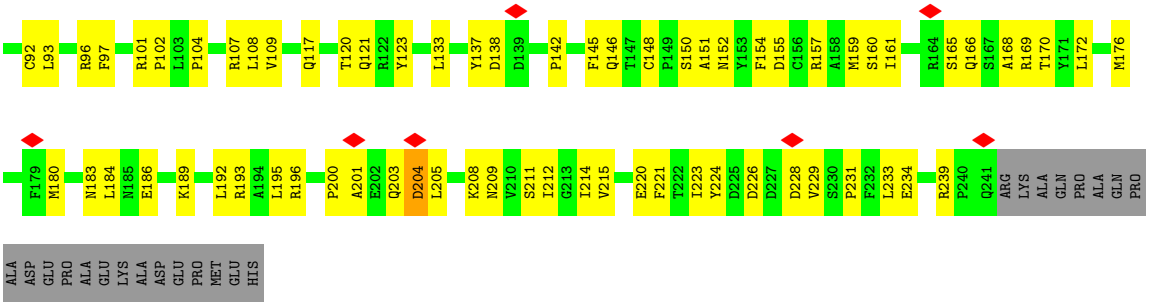
Chain BK:



• Molecule 24: Proteasome subunit alpha type-1

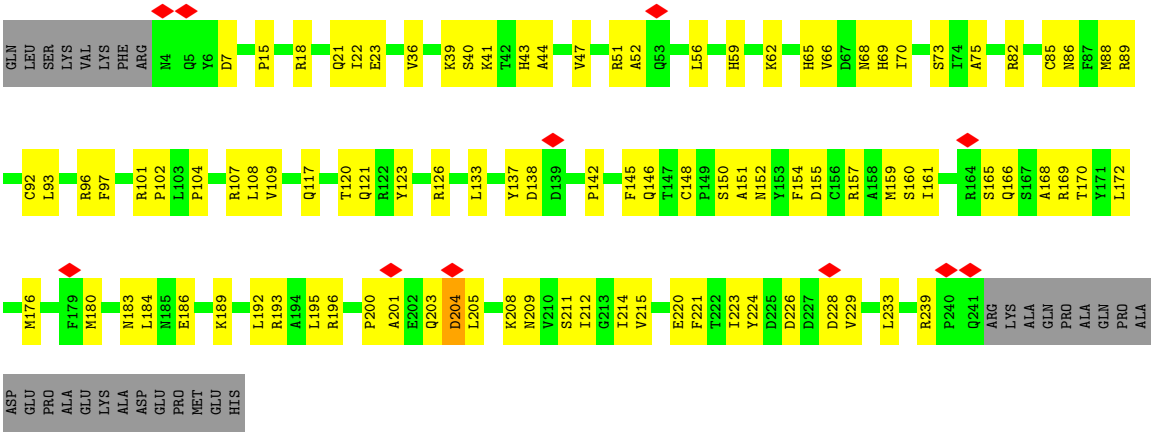
Chain AL:





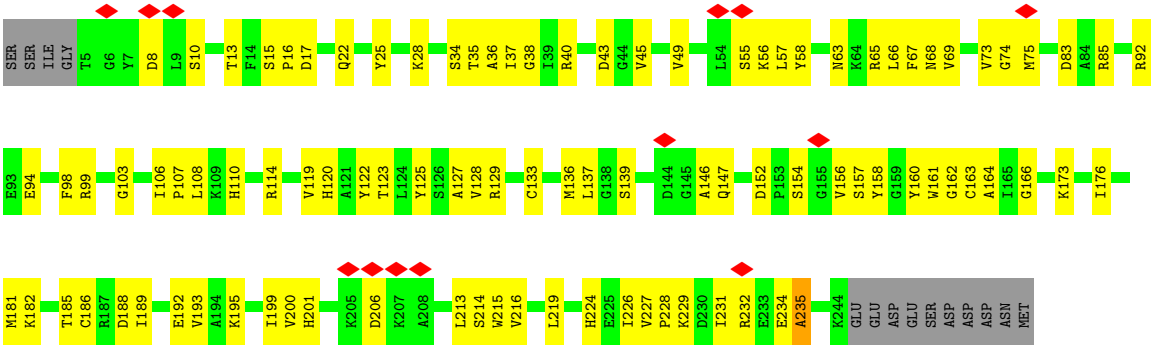
• Molecule 24: Proteasome subunit alpha type-1

Chain BL:



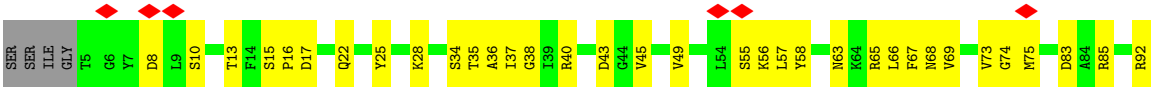
• Molecule 25: Proteasome subunit alpha type-3

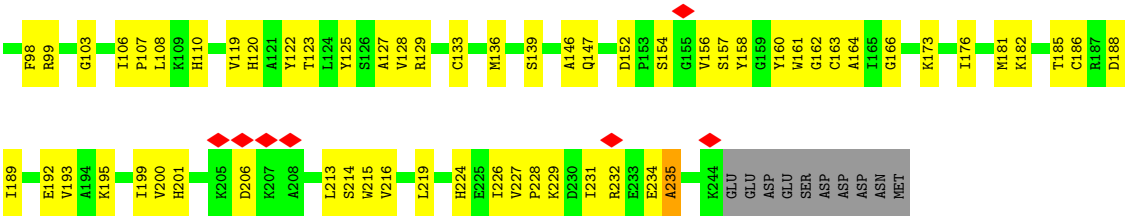
Chain AM:



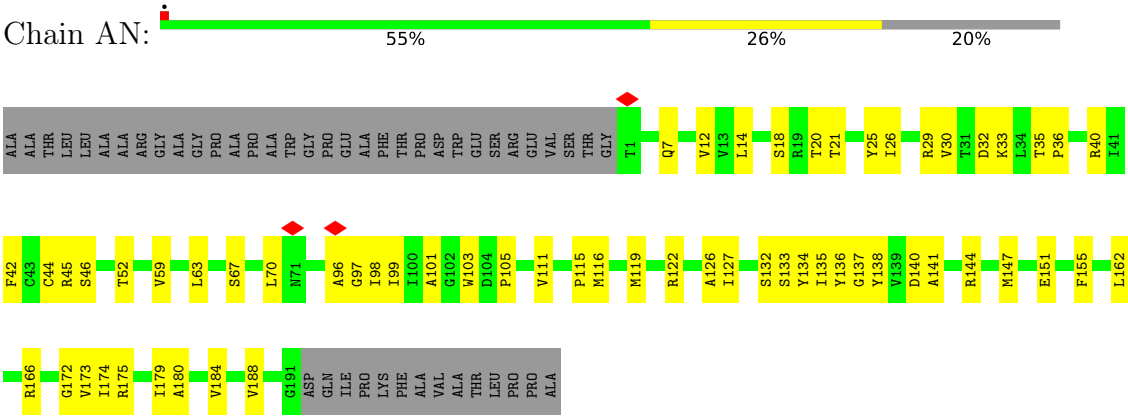
• Molecule 25: Proteasome subunit alpha type-3

Chain BM:

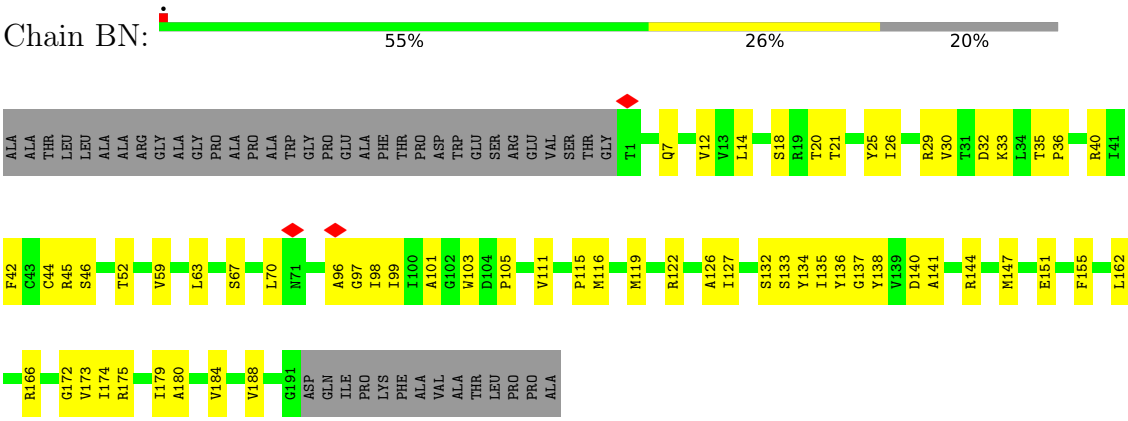




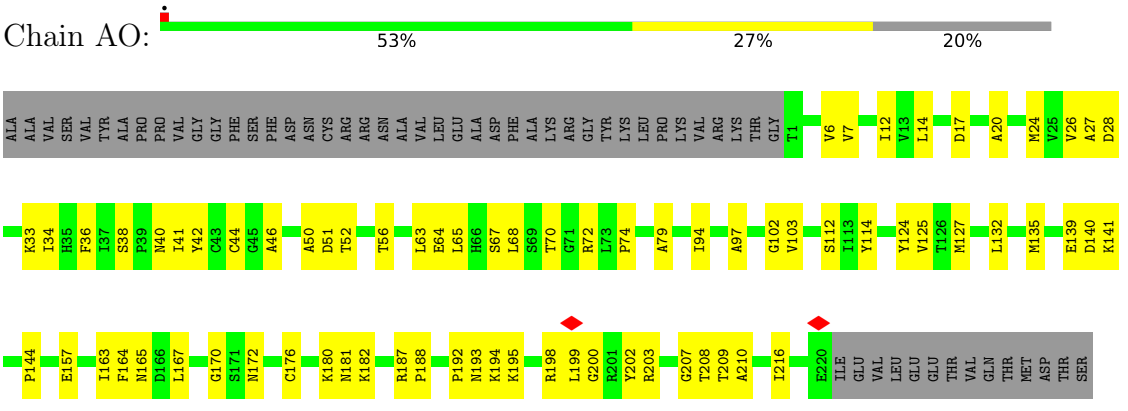
• Molecule 26: Proteasome subunit beta type-6



• Molecule 26: Proteasome subunit beta type-6

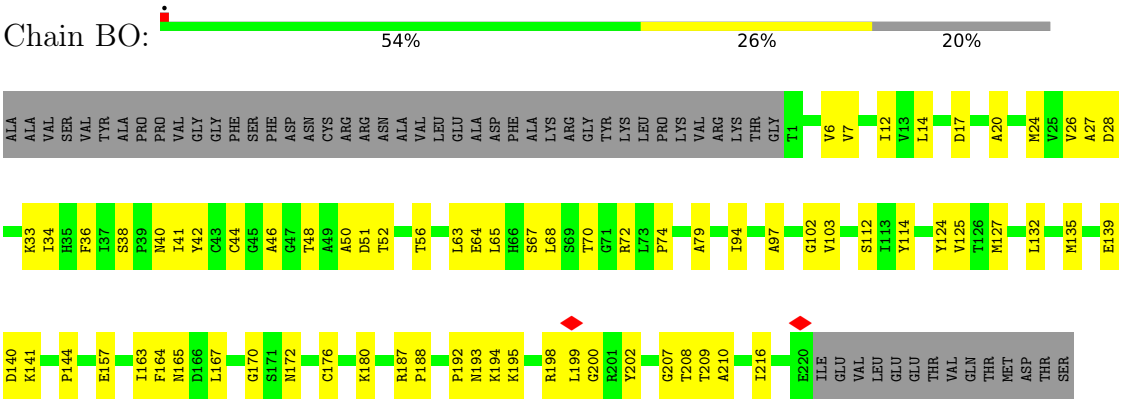


• Molecule 27: Proteasome subunit beta type-7



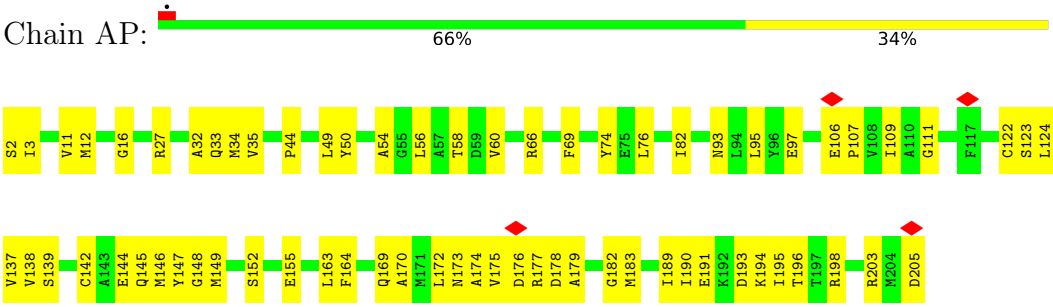
• Molecule 27: Proteasome subunit beta type-7

Chain BO:



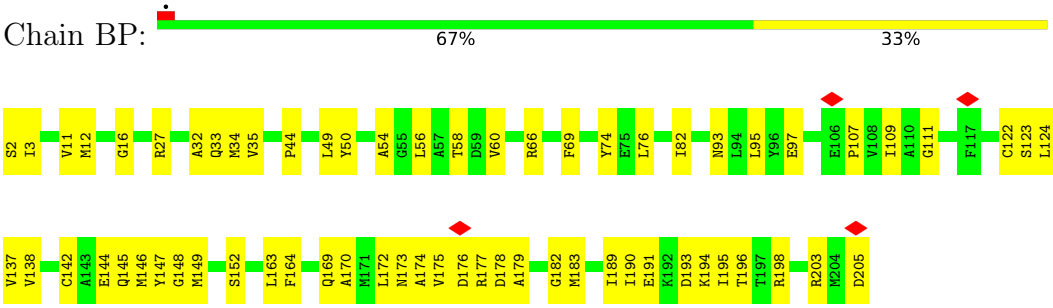
• Molecule 28: Proteasome subunit beta type-3

Chain AP:



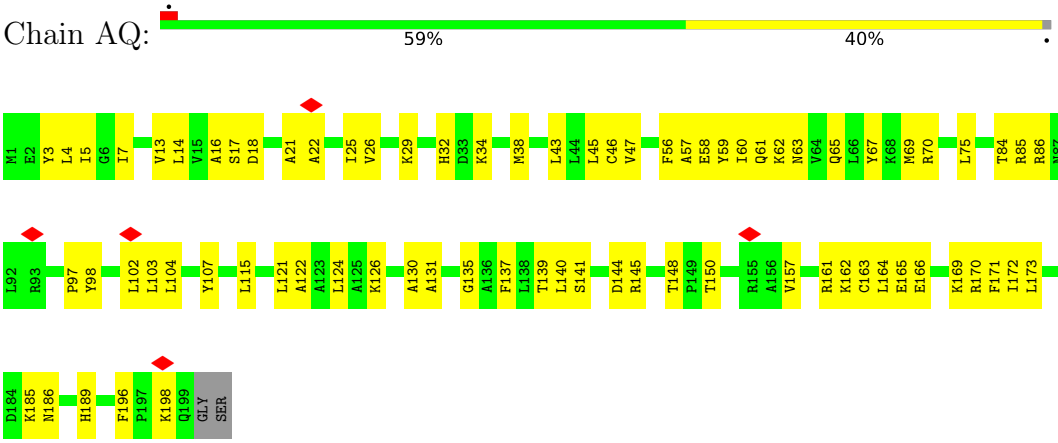
• Molecule 28: Proteasome subunit beta type-3

Chain BP:



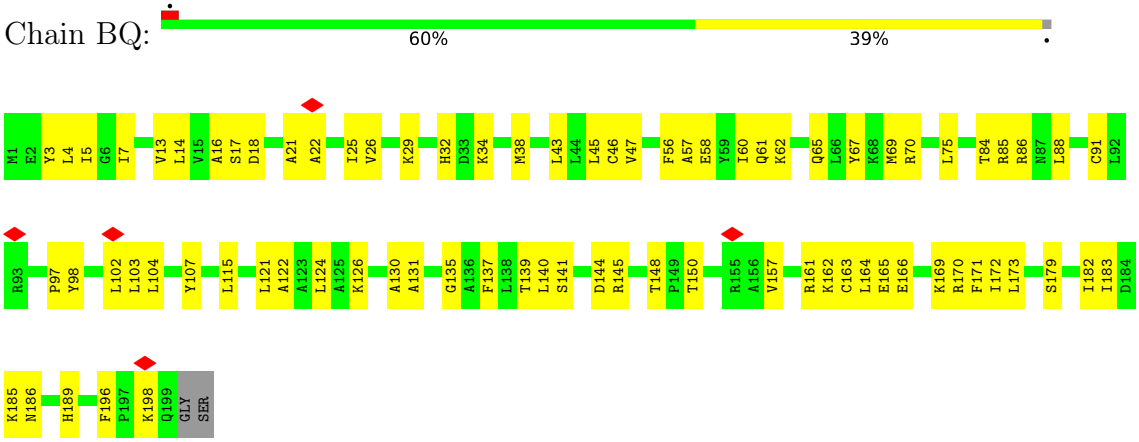
• Molecule 29: Proteasome subunit beta type-2

Chain AQ:



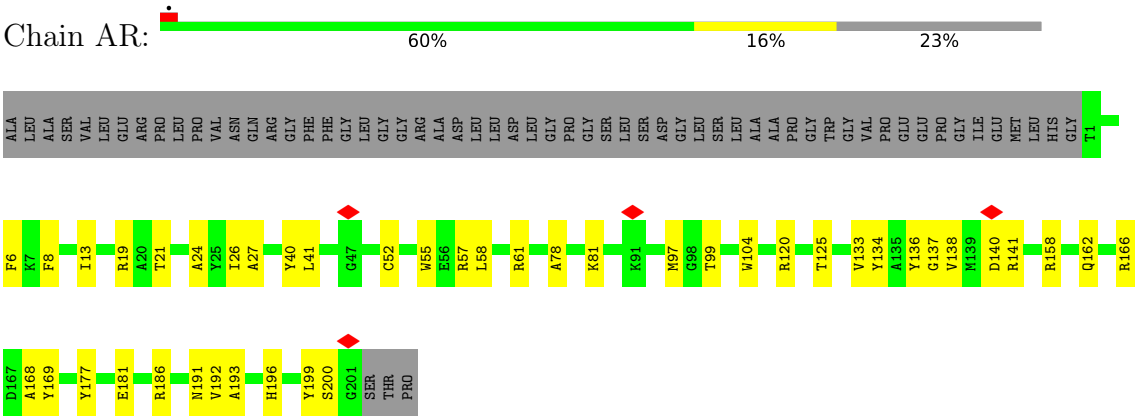
• Molecule 29: Proteasome subunit beta type-2

Chain BQ:



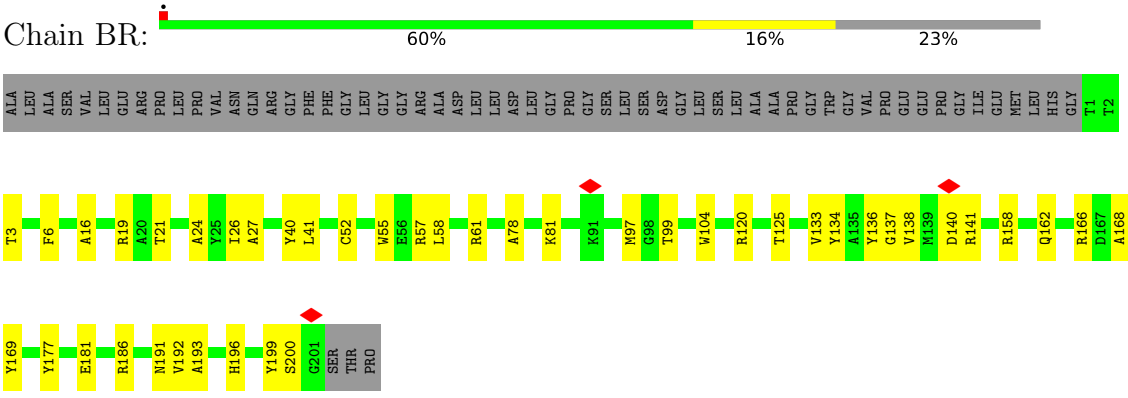
• Molecule 30: Proteasome subunit beta type-5

Chain AR:



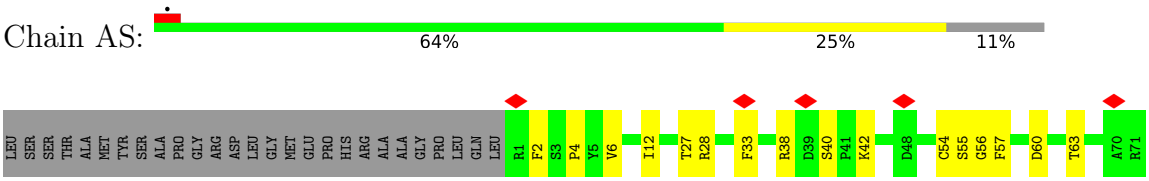
• Molecule 30: Proteasome subunit beta type-5

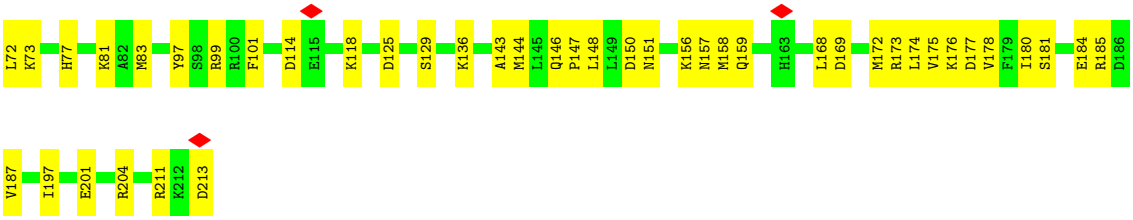
Chain BR:



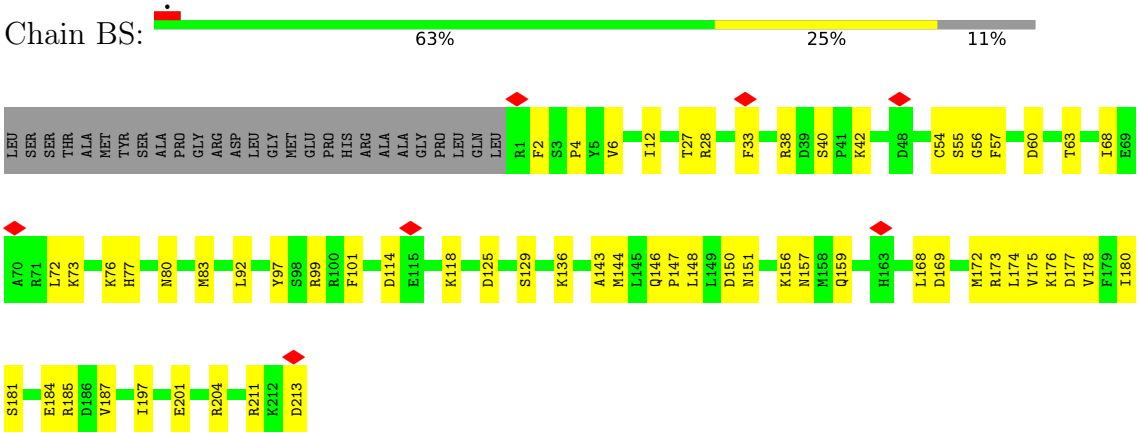
• Molecule 31: Proteasome subunit beta type-1

Chain AS:

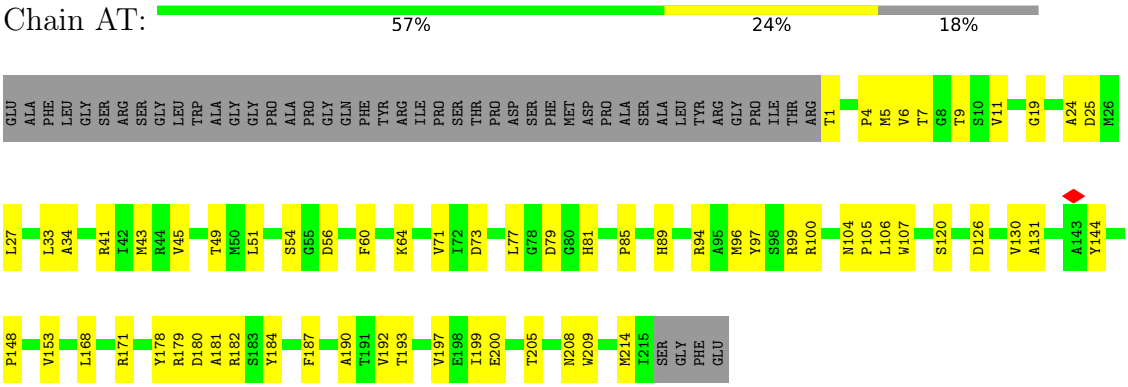




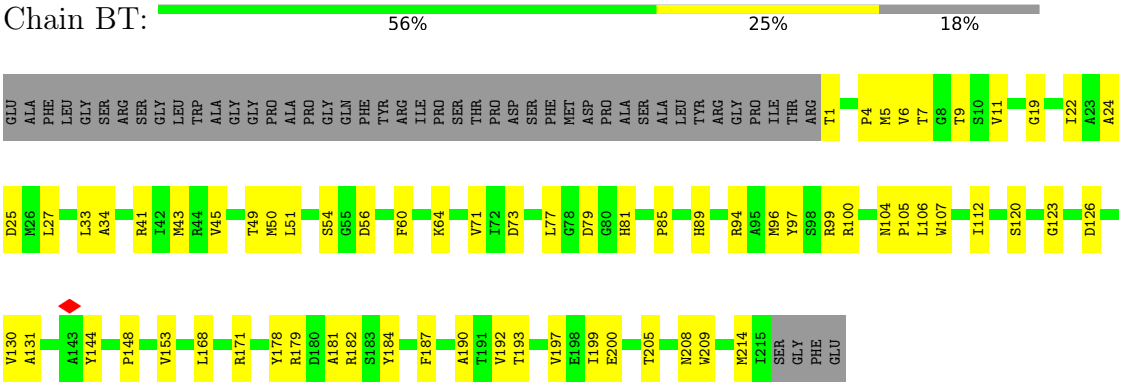
• Molecule 31: Proteasome subunit beta type-1



• Molecule 32: Proteasome subunit beta type-4



• Molecule 32: Proteasome subunit beta type-4



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	86420	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	30	Depositor
Minimum defocus (nm)	-1000	Depositor
Maximum defocus (nm)	-3000	Depositor
Magnification	28736	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.015	Depositor
Minimum map value	-0.006	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.005	Depositor
Map size (Å)	550.4, 550.4, 550.4	wwPDB
Map dimensions	640, 640, 640	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.86, 0.86, 0.86	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, ATP, ADP

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AU	0.22	1/6396 (0.0%)	0.46	0/8646
1	BU	0.22	1/6396 (0.0%)	0.46	0/8646
2	AV	0.27	0/3929	0.63	6/5309 (0.1%)
2	BV	0.27	0/3929	0.63	6/5309 (0.1%)
3	AW	0.24	0/3751	0.58	6/5042 (0.1%)
3	BW	0.24	0/3751	0.58	6/5042 (0.1%)
4	AX	0.19	0/3053	0.41	0/4115
4	BX	0.20	0/3053	0.41	0/4115
5	AY	0.24	0/3173	0.57	5/4273 (0.1%)
5	BY	0.24	0/3173	0.57	5/4273 (0.1%)
6	AZ	0.23	0/2324	0.56	5/3150 (0.2%)
6	BZ	0.23	0/2324	0.56	5/3150 (0.2%)
7	Aa	0.29	1/3053 (0.0%)	0.52	0/4133
7	Ba	0.29	1/3053 (0.0%)	0.52	0/4133
8	Ab	0.19	0/1478	0.41	0/2001
8	Bb	0.19	0/1478	0.41	0/2001
9	Ac	0.28	0/2302	0.66	8/3110 (0.3%)
9	Bc	0.28	0/2302	0.66	8/3110 (0.3%)
10	Ad	0.27	0/2162	0.60	1/2919 (0.0%)
10	Bd	0.27	0/2162	0.60	1/2919 (0.0%)
11	Ae	0.27	0/338	0.60	0/450
11	Be	0.27	0/338	0.60	0/450
12	Af	0.30	2/5413 (0.0%)	0.72	13/7317 (0.2%)
12	Bf	0.30	2/5413 (0.0%)	0.72	13/7317 (0.2%)
13	AA	0.25	0/2886	0.58	0/3899
13	BA	0.26	0/2886	0.58	0/3899
14	AB	0.24	0/2700	0.57	6/3645 (0.2%)
14	BB	0.24	0/2700	0.57	6/3645 (0.2%)
15	AD	0.27	0/3090	0.67	11/4168 (0.3%)
15	BD	0.27	0/3090	0.67	11/4168 (0.3%)
16	AE	0.23	0/2835	0.52	0/3821
16	BE	0.23	0/2835	0.52	0/3821

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AF	0.25	0/2903	0.58	5/3912 (0.1%)
17	BF	0.25	0/2903	0.58	5/3912 (0.1%)
18	AC	0.24	0/3054	0.59	4/4107 (0.1%)
18	BC	0.24	0/3054	0.59	4/4107 (0.1%)
19	AG	0.21	0/1859	0.50	2/2523 (0.1%)
19	BG	0.22	0/1859	0.50	2/2523 (0.1%)
20	AH	0.20	0/1743	0.47	2/2372 (0.1%)
20	BH	0.20	0/1743	0.47	2/2372 (0.1%)
21	AI	0.22	0/1942	0.49	0/2628
21	BI	0.22	0/1942	0.48	0/2628
22	AJ	0.21	0/1728	0.43	0/2358
22	BJ	0.21	0/1728	0.44	0/2358
23	AK	0.21	0/1747	0.48	0/2364
23	BK	0.21	0/1747	0.48	0/2364
24	AL	0.20	0/1885	0.47	2/2552 (0.1%)
24	BL	0.21	0/1885	0.47	2/2552 (0.1%)
25	AM	0.20	0/1891	0.42	0/2552
25	BM	0.20	0/1891	0.42	0/2552
26	AN	0.19	0/1454	0.37	0/1967
26	BN	0.19	0/1454	0.37	0/1967
27	AO	0.18	0/1670	0.38	0/2265
27	BO	0.18	0/1670	0.38	0/2265
28	AP	0.21	0/1614	0.41	0/2177
28	BP	0.21	0/1614	0.41	0/2177
29	AQ	0.20	0/1603	0.41	0/2174
29	BQ	0.20	0/1603	0.41	0/2174
30	AR	0.19	0/1579	0.39	0/2134
30	BR	0.19	0/1579	0.39	0/2134
31	AS	0.19	0/1671	0.36	0/2253
31	BS	0.19	0/1671	0.36	0/2253
32	AT	0.20	0/1700	0.41	0/2305
32	BT	0.20	0/1700	0.41	0/2305
All	All	0.24	8/157852 (0.0%)	0.54	152/213282 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
9	Ac	0	1
9	Bc	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
16	AE	0	1
16	BE	0	1
18	AC	0	1
18	BC	0	1
23	AK	0	1
23	BK	0	1
All	All	0	8

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Aa	145	LEU	C-N	9.82	1.56	1.33
7	Ba	145	LEU	C-N	9.82	1.56	1.33
12	Af	340	MET	C-N	-7.39	1.21	1.33
12	Bf	340	MET	C-N	-7.39	1.21	1.33
12	Af	840	LEU	C-N	5.38	1.46	1.33
12	Bf	840	LEU	C-N	5.38	1.46	1.33
1	AU	644	TYR	C-N	5.11	1.44	1.33
1	BU	644	TYR	C-N	5.11	1.44	1.33

All (152) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Bf	795	GLY	N-CA-C	11.03	126.70	113.79
12	Af	795	GLY	N-CA-C	11.02	126.68	113.79
15	AD	206	GLY	CA-C-N	-8.33	111.80	120.38
15	AD	206	GLY	C-N-CA	-8.33	111.80	120.38
15	BD	206	GLY	CA-C-N	-8.30	111.83	120.38
15	BD	206	GLY	C-N-CA	-8.30	111.83	120.38
18	AC	217	SER	CA-C-N	8.29	136.61	121.70
18	AC	217	SER	C-N-CA	8.29	136.61	121.70
18	BC	217	SER	CA-C-N	8.29	136.61	121.70
18	BC	217	SER	C-N-CA	8.29	136.61	121.70
12	Af	618	GLU	N-CA-C	7.70	127.21	110.80
12	Bf	618	GLU	N-CA-C	7.70	127.19	110.80
5	AY	63	TRP	CA-C-N	7.67	135.50	121.70
5	AY	63	TRP	C-N-CA	7.67	135.50	121.70
5	BY	63	TRP	CA-C-N	7.67	135.50	121.70
5	BY	63	TRP	C-N-CA	7.67	135.50	121.70
3	BW	92	LYS	CA-C-N	7.58	135.35	121.70
3	BW	92	LYS	C-N-CA	7.58	135.35	121.70
3	AW	92	LYS	CA-C-N	7.56	135.31	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AW	92	LYS	C-N-CA	7.56	135.31	121.70
12	Bf	340	MET	CA-C-N	7.54	131.44	120.51
12	Bf	340	MET	C-N-CA	7.54	131.44	120.51
12	Af	340	MET	CA-C-N	7.53	131.43	120.51
12	Af	340	MET	C-N-CA	7.53	131.43	120.51
9	Ac	243	SER	CA-C-N	7.41	135.04	121.70
9	Ac	243	SER	C-N-CA	7.41	135.04	121.70
3	BW	135	LYS	CA-C-N	7.41	135.03	121.70
3	BW	135	LYS	C-N-CA	7.41	135.03	121.70
3	AW	135	LYS	CA-C-N	7.40	135.01	121.70
3	AW	135	LYS	C-N-CA	7.40	135.01	121.70
9	Bc	243	SER	CA-C-N	7.38	134.97	121.70
9	Bc	243	SER	C-N-CA	7.38	134.97	121.70
15	AD	373	ALA	CA-C-N	7.02	134.34	121.70
15	AD	373	ALA	C-N-CA	7.02	134.34	121.70
15	BD	373	ALA	CA-C-N	7.01	134.32	121.70
15	BD	373	ALA	C-N-CA	7.01	134.32	121.70
6	BZ	222	ILE	CA-C-N	6.91	134.14	121.70
6	BZ	222	ILE	C-N-CA	6.91	134.14	121.70
6	AZ	222	ILE	CA-C-N	6.90	134.12	121.70
6	AZ	222	ILE	C-N-CA	6.90	134.12	121.70
2	AV	81	GLN	CA-C-N	6.28	133.00	121.70
2	AV	81	GLN	C-N-CA	6.28	133.00	121.70
2	BV	81	GLN	CA-C-N	6.28	133.00	121.70
2	BV	81	GLN	C-N-CA	6.28	133.00	121.70
6	BZ	63	LYS	CA-C-N	6.23	132.92	121.70
6	BZ	63	LYS	C-N-CA	6.23	132.92	121.70
6	AZ	63	LYS	CA-C-N	6.21	132.89	121.70
6	AZ	63	LYS	C-N-CA	6.21	132.89	121.70
15	AD	389	GLU	CA-C-N	6.18	132.83	121.70
15	AD	389	GLU	C-N-CA	6.18	132.83	121.70
12	Af	618	GLU	CA-C-N	6.18	132.82	121.70
12	Af	618	GLU	C-N-CA	6.18	132.82	121.70
15	BD	389	GLU	CA-C-N	6.17	132.81	121.70
15	BD	389	GLU	C-N-CA	6.17	132.81	121.70
12	Bf	618	GLU	CA-C-N	6.16	132.78	121.70
12	Bf	618	GLU	C-N-CA	6.16	132.78	121.70
2	BV	57	ALA	CA-C-N	6.15	132.78	121.70
2	BV	57	ALA	C-N-CA	6.15	132.78	121.70
2	AV	57	ALA	CA-C-N	6.15	132.76	121.70
2	AV	57	ALA	C-N-CA	6.15	132.76	121.70
12	Bf	776	LEU	CA-C-N	6.09	132.67	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Bf	776	LEU	C-N-CA	6.09	132.67	121.70
12	Af	776	LEU	CA-C-N	6.08	132.63	121.70
12	Af	776	LEU	C-N-CA	6.08	132.63	121.70
9	Bc	188	SER	CA-C-N	5.95	132.42	121.70
9	Bc	188	SER	C-N-CA	5.95	132.42	121.70
9	Ac	188	SER	CA-C-N	5.95	132.40	121.70
9	Ac	188	SER	C-N-CA	5.95	132.40	121.70
18	AC	255	GLY	CA-C-N	5.94	132.39	121.70
18	AC	255	GLY	C-N-CA	5.94	132.39	121.70
18	BC	255	GLY	CA-C-N	5.93	132.38	121.70
18	BC	255	GLY	C-N-CA	5.93	132.38	121.70
5	BY	170	GLU	N-CA-C	5.83	117.64	111.28
5	AY	170	GLU	N-CA-C	5.80	117.60	111.28
17	AF	87	PRO	N-CA-C	-5.79	101.51	112.33
17	AF	164	LEU	CA-C-N	5.79	127.07	119.84
17	AF	164	LEU	C-N-CA	5.79	127.07	119.84
17	BF	87	PRO	N-CA-C	-5.77	101.54	112.33
17	BF	164	LEU	CA-C-N	5.75	127.03	119.84
17	BF	164	LEU	C-N-CA	5.75	127.03	119.84
12	Bf	776	LEU	N-CA-C	5.74	117.22	111.07
12	Bf	815	HIS	CB-CA-C	-5.67	109.04	115.79
20	BH	231	ALA	CA-C-N	5.67	131.91	121.70
20	BH	231	ALA	C-N-CA	5.67	131.91	121.70
20	AH	231	ALA	CA-C-N	5.66	131.89	121.70
20	AH	231	ALA	C-N-CA	5.66	131.89	121.70
24	AL	204	ASP	CA-C-N	5.65	131.87	121.70
24	AL	204	ASP	C-N-CA	5.65	131.87	121.70
12	Af	815	HIS	CB-CA-C	-5.63	109.08	115.79
24	BL	204	ASP	CA-C-N	5.63	131.83	121.70
24	BL	204	ASP	C-N-CA	5.63	131.83	121.70
12	Af	776	LEU	N-CA-C	5.61	117.20	111.14
15	AD	148	ASP	CA-C-N	5.58	131.75	121.70
15	AD	148	ASP	C-N-CA	5.58	131.75	121.70
15	BD	148	ASP	CA-C-N	5.57	131.72	121.70
15	BD	148	ASP	C-N-CA	5.57	131.72	121.70
12	Af	529	SER	CA-C-N	5.52	131.64	121.70
12	Af	529	SER	C-N-CA	5.52	131.64	121.70
12	Bf	529	SER	CA-C-N	5.51	131.62	121.70
12	Bf	529	SER	C-N-CA	5.51	131.62	121.70
9	Ac	281	LYS	CA-C-N	5.47	131.54	121.70
9	Ac	281	LYS	C-N-CA	5.47	131.54	121.70
9	Bc	281	LYS	CA-C-N	5.47	131.54	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Bc	281	LYS	C-N-CA	5.47	131.54	121.70
5	AY	356	THR	CA-C-N	5.45	131.51	121.70
5	AY	356	THR	C-N-CA	5.45	131.51	121.70
5	BY	356	THR	CA-C-N	5.44	131.49	121.70
5	BY	356	THR	C-N-CA	5.44	131.49	121.70
10	Ad	228	GLN	N-CA-C	5.42	124.37	113.31
10	Bd	228	GLN	N-CA-C	5.42	124.36	113.31
2	AV	80	LYS	CA-C-N	5.38	131.39	121.70
2	AV	80	LYS	C-N-CA	5.38	131.39	121.70
2	BV	80	LYS	CA-C-N	5.37	131.36	121.70
2	BV	80	LYS	C-N-CA	5.37	131.36	121.70
9	Bc	282	ARG	CA-C-N	5.37	131.36	121.70
9	Bc	282	ARG	C-N-CA	5.37	131.36	121.70
14	AB	139	VAL	CA-C-N	5.37	131.36	121.70
14	AB	139	VAL	C-N-CA	5.37	131.36	121.70
14	BB	139	VAL	CA-C-N	5.37	131.36	121.70
14	BB	139	VAL	C-N-CA	5.37	131.36	121.70
14	BB	166	ASP	CA-C-N	5.36	131.34	121.70
14	BB	166	ASP	C-N-CA	5.36	131.34	121.70
14	AB	166	ASP	CA-C-N	5.35	131.33	121.70
14	AB	166	ASP	C-N-CA	5.35	131.33	121.70
9	Ac	282	ARG	CA-C-N	5.34	131.32	121.70
9	Ac	282	ARG	C-N-CA	5.34	131.32	121.70
15	BD	151	ILE	CA-C-N	5.29	131.23	121.70
15	BD	151	ILE	C-N-CA	5.29	131.23	121.70
15	AD	151	ILE	CA-C-N	5.29	131.22	121.70
15	AD	151	ILE	C-N-CA	5.29	131.22	121.70
19	BG	184	LYS	CA-C-N	5.20	131.07	121.70
19	BG	184	LYS	C-N-CA	5.20	131.07	121.70
15	BD	144	PRO	N-CA-C	5.18	117.02	110.70
15	AD	144	PRO	N-CA-C	5.18	117.02	110.70
19	AG	184	LYS	CA-C-N	5.18	131.02	121.70
19	AG	184	LYS	C-N-CA	5.18	131.02	121.70
17	AF	150	LEU	N-CA-C	-5.09	105.29	113.28
17	BF	150	LEU	N-CA-C	-5.09	105.29	113.28
17	BF	150	LEU	CB-CG-CD2	5.08	125.95	110.70
17	AF	150	LEU	CB-CG-CD2	5.07	125.90	110.70
3	AW	257	GLN	CA-C-N	5.06	130.81	121.70
3	AW	257	GLN	C-N-CA	5.06	130.81	121.70
3	BW	257	GLN	CA-C-N	5.06	130.80	121.70
3	BW	257	GLN	C-N-CA	5.06	130.80	121.70
12	Af	400	TYR	CB-CA-C	-5.05	109.78	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	BB	324	ASP	CA-C-N	5.05	130.79	121.70
14	BB	324	ASP	C-N-CA	5.05	130.79	121.70
12	Bf	400	TYR	CB-CA-C	-5.05	109.78	115.79
14	AB	324	ASP	CA-C-N	5.04	130.77	121.70
14	AB	324	ASP	C-N-CA	5.04	130.77	121.70
6	AZ	63	LYS	N-CA-C	5.03	119.28	112.04
6	BZ	63	LYS	N-CA-C	5.03	119.28	112.04

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
18	AC	171	HIS	Peptide
16	AE	175	PRO	Peptide
23	AK	232	GLU	Peptide
9	Ac	243	SER	Peptide
18	BC	171	HIS	Peptide
16	BE	175	PRO	Peptide
23	BK	232	GLU	Peptide
9	Bc	243	SER	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AU	6287	0	6338	181	0
1	BU	6287	0	6338	182	0
2	AV	3852	0	3893	175	0
2	BV	3852	0	3893	170	0
3	AW	3703	0	3822	163	0
3	BW	3703	0	3822	163	0
4	AX	3009	0	3113	90	0
4	BX	3009	0	3113	89	0
5	AY	3115	0	3120	115	0
5	BY	3115	0	3120	119	0
6	AZ	2281	0	2312	121	0
6	BZ	2281	0	2312	121	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	Aa	2995	0	3012	95	0
7	Ba	2995	0	3012	99	0
8	Ab	1458	0	1505	51	0
8	Bb	1458	0	1505	51	0
9	Ac	2260	0	2276	137	0
9	Bc	2260	0	2276	138	0
10	Ad	2116	0	2146	84	0
10	Bd	2116	0	2146	86	0
11	Ae	334	0	294	25	0
11	Be	334	0	294	23	0
12	Af	5331	0	5344	406	0
12	Bf	5331	0	5344	422	0
13	AA	2835	0	2879	209	0
13	BA	2835	0	2879	216	0
14	AB	2662	0	2702	215	0
14	BB	2662	0	2702	217	0
15	AD	3040	0	3074	235	0
15	BD	3040	0	3074	232	0
16	AE	2790	0	2846	202	0
16	BE	2790	0	2846	201	0
17	AF	2863	0	2931	213	0
17	BF	2863	0	2931	218	0
18	AC	3015	0	3125	263	0
18	BC	3015	0	3125	262	0
19	AG	1826	0	1796	73	0
19	BG	1826	0	1796	73	0
20	AH	1708	0	1594	83	0
20	BH	1708	0	1594	82	0
21	AI	1912	0	1851	81	0
21	BI	1912	0	1851	85	0
22	AJ	1704	0	1517	69	0
22	BJ	1704	0	1517	69	0
23	AK	1722	0	1673	82	0
23	BK	1722	0	1673	83	0
24	AL	1850	0	1822	83	0
24	BL	1850	0	1822	84	0
25	AM	1856	0	1814	84	0
25	BM	1856	0	1814	83	0
26	AN	1430	0	1391	103	0
26	BN	1430	0	1392	108	0
27	AO	1643	0	1643	181	0
27	BO	1643	0	1643	181	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	AP	1585	0	1594	146	0
28	BP	1585	0	1594	145	0
29	AQ	1570	0	1540	142	0
29	BQ	1570	0	1540	139	0
30	AR	1548	0	1490	129	0
30	BR	1548	0	1491	131	0
31	AS	1641	0	1613	223	0
31	BS	1641	0	1613	224	0
32	AT	1667	0	1626	87	0
32	BT	1667	0	1626	84	0
33	Ac	1	0	0	0	0
33	Bc	1	0	0	0	0
34	AA	31	0	12	2	0
34	AD	31	0	12	1	0
34	AE	31	0	12	9	0
34	AF	31	0	12	2	0
34	BA	31	0	12	2	0
34	BD	31	0	12	1	0
34	BE	31	0	12	9	0
34	BF	31	0	12	2	0
35	AB	27	0	12	7	0
35	AC	27	0	12	3	0
35	BB	27	0	12	7	0
35	BC	27	0	12	3	0
All	All	155574	0	155538	7471	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 24.

All (7471) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:185:ARG:HA	27:BO:26:VAL:CG2	1.29	1.61
26:AN:138:TYR:CA	26:BN:138:TYR:HB2	1.23	1.59
27:AO:26:VAL:CG2	31:BS:185:ARG:HA	1.33	1.58
31:AS:180:ILE:CG2	27:BO:195:LYS:CE	1.75	1.58
26:AN:138:TYR:HB2	26:BN:138:TYR:CA	1.22	1.58
28:AP:147:TYR:CE1	31:BS:185:ARG:CZ	1.88	1.56
31:AS:33:PHE:CD1	27:BO:167:LEU:HD12	1.40	1.56
31:AS:185:ARG:CZ	28:BP:147:TYR:CE1	1.89	1.55
27:AO:195:LYS:CE	31:BS:180:ILE:CG2	1.75	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:167:LEU:HD12	31:BS:33:PHE:CD1	1.41	1.53
28:AP:147:TYR:CD1	31:BS:185:ARG:CZ	1.91	1.51
31:AS:185:ARG:CZ	28:BP:147:TYR:CD1	1.94	1.50
26:AN:134:TYR:CE2	32:BT:33:LEU:HD13	1.47	1.49
32:AT:33:LEU:HD13	26:BN:134:TYR:CE2	1.47	1.48
31:AS:159:GLN:HE21	27:BO:209:THR:C	1.17	1.48
27:AO:209:THR:C	31:BS:159:GLN:HE21	1.20	1.45
12:Bf:680:ARG:HE	13:BA:74:PRO:CG	1.30	1.44
12:Af:680:ARG:HE	13:AA:74:PRO:CG	1.30	1.43
28:AP:177:ARG:CD	30:BR:26:ILE:O	1.69	1.40
30:AR:26:ILE:O	28:BP:177:ARG:CD	1.70	1.39
31:AS:180:ILE:CG2	27:BO:195:LYS:HE3	1.39	1.38
27:AO:199:LEU:HD21	31:BS:176:LYS:N	1.05	1.37
27:AO:195:LYS:HE3	31:BS:180:ILE:CG2	1.39	1.37
28:AP:32:ALA:HB2	30:BR:169:TYR:CE2	1.59	1.34
30:AR:169:TYR:CE2	28:BP:32:ALA:HB2	1.60	1.34
31:AS:173:ARG:HB2	27:BO:199:LEU:O	1.26	1.34
31:AS:176:LYS:N	27:BO:199:LEU:CD2	1.91	1.34
31:AS:33:PHE:CG	27:BO:167:LEU:HD12	1.37	1.33
31:AS:176:LYS:N	27:BO:199:LEU:HD21	1.05	1.33
28:AP:177:ARG:NH1	30:BR:27:ALA:O	1.60	1.33
14:BB:103:ARG:CD	14:BB:107:MET:HE1	1.58	1.33
27:AO:199:LEU:CD2	31:BS:176:LYS:N	1.90	1.32
31:AS:181:SER:HA	27:BO:195:LYS:NZ	1.45	1.32
29:AQ:166:GLU:OE1	30:BR:140:ASP:HB3	1.29	1.31
30:AR:27:ALA:O	28:BP:177:ARG:NH1	1.59	1.31
31:AS:185:ARG:CA	27:BO:26:VAL:CG2	2.07	1.31
6:AZ:261:TYR:O	6:AZ:265:LEU:HD13	1.20	1.31
29:AQ:166:GLU:OE1	30:BR:140:ASP:CB	1.79	1.30
30:AR:140:ASP:CB	29:BQ:166:GLU:OE1	1.79	1.30
31:AS:185:ARG:NE	28:BP:147:TYR:CD1	1.99	1.30
14:AB:103:ARG:CD	14:AB:107:MET:HE1	1.58	1.30
27:AO:195:LYS:NZ	31:BS:181:SER:HA	1.46	1.29
28:AP:147:TYR:CD1	31:BS:185:ARG:NE	1.98	1.29
6:BZ:261:TYR:O	6:BZ:265:LEU:HD13	1.19	1.29
27:AO:199:LEU:O	31:BS:173:ARG:HB2	1.29	1.29
31:AS:185:ARG:CA	27:BO:26:VAL:HG23	1.62	1.29
27:AO:167:LEU:HD12	31:BS:33:PHE:CG	1.35	1.28
30:AR:26:ILE:HD13	28:BP:176:ASP:C	1.56	1.28
27:AO:195:LYS:CE	31:BS:180:ILE:HG22	0.80	1.28
3:AW:136:ILE:CG1	15:AD:392:TYR:HD1	1.45	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AP:176:ASP:C	30:BR:26:ILE:HD13	1.55	1.28
31:AS:180:ILE:HG22	27:BO:195:LYS:CE	0.79	1.27
27:AO:26:VAL:CG2	31:BS:185:ARG:CA	2.11	1.27
28:AP:177:ARG:HD2	30:BR:26:ILE:O	1.13	1.27
30:AR:136:TYR:CD1	29:BQ:169:LYS:NZ	2.02	1.26
29:AQ:169:LYS:NZ	30:BR:136:TYR:CD1	2.01	1.26
3:BW:136:ILE:CG1	15:BD:392:TYR:HD1	1.45	1.26
30:AR:134:TYR:CE1	29:BQ:137:PHE:CB	2.18	1.25
30:AR:26:ILE:O	28:BP:177:ARG:HD2	1.14	1.25
3:BW:136:ILE:HG12	15:BD:392:TYR:CD1	1.70	1.24
3:AW:136:ILE:HG12	15:AD:392:TYR:CD1	1.70	1.24
30:AR:24:ALA:O	28:BP:178:ASP:OD1	1.56	1.24
31:AS:159:GLN:NE2	27:BO:210:ALA:N	1.83	1.24
27:AO:26:VAL:HG23	31:BS:185:ARG:CA	1.65	1.24
27:AO:210:ALA:N	31:BS:159:GLN:NE2	1.85	1.24
26:AN:138:TYR:CB	26:BN:138:TYR:CA	2.16	1.24
30:AR:140:ASP:HB3	29:BQ:166:GLU:OE1	1.28	1.24
6:AZ:261:TYR:O	6:AZ:265:LEU:CD1	1.86	1.23
28:AP:147:TYR:CE1	31:BS:185:ARG:NH2	2.07	1.23
6:BZ:261:TYR:O	6:BZ:265:LEU:CD1	1.86	1.23
27:AO:26:VAL:HG23	31:BS:185:ARG:C	1.64	1.22
31:AS:185:ARG:C	27:BO:26:VAL:HG23	1.62	1.22
26:AN:138:TYR:CA	26:BN:138:TYR:CB	2.16	1.21
31:AS:181:SER:CA	27:BO:195:LYS:HZ2	1.54	1.21
31:AS:157:ASN:HD22	28:BP:173:ASN:N	1.36	1.21
28:AP:178:ASP:OD1	30:BR:24:ALA:O	1.56	1.20
31:AS:185:ARG:NH2	28:BP:147:TYR:CE1	2.07	1.20
28:AP:173:ASN:N	31:BS:157:ASN:HD22	1.40	1.20
27:AO:199:LEU:HD21	31:BS:176:LYS:CA	1.66	1.20
27:AO:209:THR:C	31:BS:159:GLN:NE2	2.00	1.20
31:AS:159:GLN:NE2	27:BO:209:THR:C	1.96	1.20
31:AS:144:MET:CE	28:BP:147:TYR:CB	2.19	1.19
30:AR:166:ARG:NH2	28:BP:35:VAL:HG23	1.57	1.19
29:AQ:137:PHE:CB	30:BR:134:TYR:CE1	2.17	1.18
28:AP:147:TYR:CB	31:BS:144:MET:CE	2.22	1.18
27:AO:195:LYS:NZ	31:BS:181:SER:CA	2.08	1.17
12:Bf:680:ARG:NE	13:BA:74:PRO:HG3	1.59	1.17
14:BB:100:ASP:HA	14:BB:103:ARG:NH1	1.59	1.17
12:Af:680:ARG:NE	13:AA:74:PRO:HG3	1.59	1.17
26:AN:138:TYR:HB2	26:BN:138:TYR:CB	1.75	1.17
26:AN:138:TYR:CB	26:BN:138:TYR:HB2	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AQ:165:GLU:HB2	30:BR:141:ARG:NH2	1.61	1.16
9:Ac:46:ARG:HG3	16:AE:85:ARG:NH2	1.60	1.16
14:AB:100:ASP:HA	14:AB:103:ARG:NH1	1.59	1.16
31:AS:185:ARG:NH1	28:BP:147:TYR:CE1	2.14	1.16
16:BE:181:THR:O	16:BE:185:ARG:HB2	1.46	1.15
28:AP:147:TYR:CE1	31:BS:185:ARG:NH1	2.11	1.15
31:AS:180:ILE:CG2	27:BO:195:LYS:HE2	1.53	1.15
27:AO:140:ASP:OD2	32:BT:171:ARG:NH2	1.79	1.15
29:AQ:137:PHE:CA	30:BR:134:TYR:HE1	1.59	1.15
29:AQ:173:LEU:HA	29:BQ:172:ILE:O	0.98	1.15
29:AQ:173:LEU:CA	29:BQ:172:ILE:O	1.94	1.15
9:Bc:46:ARG:HG3	16:BE:85:ARG:NH2	1.60	1.15
26:AN:138:TYR:HA	26:BN:138:TYR:CB	1.75	1.15
29:AQ:172:ILE:O	29:BQ:173:LEU:HA	1.00	1.14
31:AS:181:SER:CA	27:BO:195:LYS:NZ	2.06	1.14
26:AN:26:ILE:HG21	32:BT:178:TYR:O	1.46	1.14
30:AR:141:ARG:NH2	29:BQ:165:GLU:HB2	1.62	1.14
29:AQ:172:ILE:O	29:BQ:173:LEU:CA	1.96	1.14
29:AQ:137:PHE:HB3	30:BR:134:TYR:CE1	1.83	1.14
32:AT:171:ARG:NH2	27:BO:140:ASP:OD2	1.79	1.14
28:AP:35:VAL:HG23	30:BR:166:ARG:NH2	1.60	1.13
30:AR:134:TYR:HE1	29:BQ:137:PHE:CA	1.62	1.13
26:AN:138:TYR:CB	26:BN:138:TYR:HA	1.74	1.13
26:AN:138:TYR:N	26:BN:138:TYR:HB2	1.63	1.13
28:AP:147:TYR:HB3	31:BS:144:MET:HE1	1.20	1.13
16:AE:181:THR:O	16:AE:185:ARG:HB2	1.46	1.13
31:AS:185:ARG:O	27:BO:26:VAL:HG23	1.45	1.13
12:Af:390:LEU:O	12:Af:394:ASP:HB2	1.45	1.13
27:AO:195:LYS:HZ2	31:BS:181:SER:CA	1.59	1.13
29:AQ:162:LYS:HA	30:BR:141:ARG:CZ	1.78	1.13
12:Bf:390:LEU:O	12:Bf:394:ASP:HB2	1.45	1.12
16:AE:367:PHE:O	16:AE:371:VAL:HB	1.49	1.12
27:AO:26:VAL:HG23	31:BS:185:ARG:O	1.45	1.12
32:AT:178:TYR:O	26:BN:26:ILE:HG21	1.48	1.12
9:Bc:168:MET:HA	9:Bc:172:HIS:HE1	1.15	1.11
14:BB:103:ARG:O	14:BB:107:MET:HE2	1.48	1.11
9:Ac:118:PHE:CD1	16:AE:103:THR:HG21	1.85	1.11
26:AN:134:TYR:OH	32:BT:33:LEU:HD22	1.52	1.10
14:AB:103:ARG:O	14:AB:107:MET:HE2	1.48	1.10
30:AR:26:ILE:HG22	28:BP:177:ARG:HD3	1.16	1.10
27:AO:26:VAL:HG21	31:BS:185:ARG:HA	1.15	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AR:26:ILE:CD1	28:BP:177:ARG:N	2.14	1.10
31:AS:185:ARG:HA	27:BO:26:VAL:HG21	1.12	1.10
31:AS:185:ARG:HD3	27:BO:26:VAL:HB	1.24	1.10
32:AT:33:LEU:HD22	26:BN:134:TYR:CZ	1.86	1.10
14:AB:103:ARG:HD2	14:AB:107:MET:HE1	1.14	1.10
28:AP:177:ARG:N	30:BR:26:ILE:CD1	2.14	1.10
30:AR:134:TYR:CE1	29:BQ:137:PHE:HB3	1.84	1.10
31:AS:144:MET:HE1	28:BP:147:TYR:HB3	1.17	1.10
29:AQ:137:PHE:HA	30:BR:134:TYR:CE1	1.86	1.09
31:AS:144:MET:HA	28:BP:144:GLU:C	1.77	1.09
9:Bc:118:PHE:CD1	16:BE:103:THR:HG21	1.86	1.09
31:AS:175:VAL:C	27:BO:199:LEU:HD21	1.77	1.09
16:BE:367:PHE:O	16:BE:371:VAL:HB	1.49	1.09
26:AN:138:TYR:HA	26:BN:138:TYR:HB2	1.11	1.09
28:AP:176:ASP:OD2	31:BS:157:ASN:OD1	1.70	1.09
12:Af:244:GLU:O	12:Af:248:LEU:HB2	1.52	1.09
30:AR:134:TYR:CE1	29:BQ:137:PHE:HA	1.88	1.09
26:AN:138:TYR:HB2	26:BN:138:TYR:N	1.65	1.08
4:BX:122:ARG:HH21	20:BH:185:GLU:HG2	1.13	1.08
26:AN:134:TYR:CZ	32:BT:33:LEU:HD22	1.87	1.08
28:AP:144:GLU:O	31:BS:144:MET:HA	1.53	1.08
12:Bf:244:GLU:O	12:Bf:248:LEU:HB2	1.52	1.08
28:AP:147:TYR:CB	31:BS:144:MET:HE1	1.68	1.08
13:BA:414:ASN:O	13:BA:418:LYS:HB2	1.53	1.08
13:AA:414:ASN:O	13:AA:418:LYS:HB2	1.53	1.08
6:BZ:261:TYR:C	6:BZ:265:LEU:HD13	1.79	1.08
9:Ac:118:PHE:HD1	16:AE:103:THR:HG21	0.94	1.08
28:AP:147:TYR:CD1	31:BS:185:ARG:NH2	2.20	1.08
14:BB:103:ARG:HD2	14:BB:107:MET:HE1	1.15	1.08
31:AS:157:ASN:OD1	28:BP:176:ASP:OD2	1.70	1.07
31:AS:157:ASN:ND2	28:BP:172:LEU:C	2.12	1.07
31:AS:157:ASN:ND2	28:BP:173:ASN:N	2.00	1.07
12:Bf:680:ARG:NE	13:BA:74:PRO:CG	2.15	1.07
27:AO:199:LEU:HD22	31:BS:174:LEU:O	1.53	1.07
30:AR:141:ARG:HH22	29:BQ:165:GLU:HB2	1.16	1.07
18:BC:346:LYS:O	18:BC:350:LEU:HD13	1.55	1.07
29:AQ:137:PHE:CB	30:BR:134:TYR:HE1	1.50	1.07
31:AS:144:MET:HE1	28:BP:147:TYR:CB	1.66	1.07
31:AS:174:LEU:O	27:BO:199:LEU:HD22	1.51	1.07
31:AS:176:LYS:HB2	27:BO:199:LEU:HG	1.09	1.07
31:AS:33:PHE:CD1	27:BO:167:LEU:CD1	2.14	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:144:MET:HA	28:BP:144:GLU:O	1.51	1.06
9:Bc:118:PHE:HD1	16:BE:103:THR:HG21	0.94	1.06
6:AZ:261:TYR:C	6:AZ:265:LEU:HD13	1.79	1.06
28:AP:177:ARG:HD3	30:BR:26:ILE:HG22	1.18	1.06
16:BE:54:GLY:O	16:BE:102:MET:HE2	1.56	1.06
4:AX:122:ARG:HH21	20:AH:185:GLU:HG2	1.13	1.06
31:AS:173:ARG:C	27:BO:199:LEU:HD23	1.78	1.06
32:AT:33:LEU:HD22	26:BN:134:TYR:OH	1.53	1.06
27:AO:26:VAL:HB	31:BS:185:ARG:HD3	1.27	1.05
30:AR:141:ARG:CZ	29:BQ:162:LYS:HA	1.79	1.05
31:AS:176:LYS:CA	27:BO:199:LEU:HD21	1.69	1.05
3:BW:136:ILE:CG1	15:BD:392:TYR:CD1	2.33	1.05
14:AB:103:ARG:CD	14:AB:107:MET:CE	2.35	1.05
27:AO:195:LYS:HE2	31:BS:180:ILE:CG2	1.53	1.05
27:AO:199:LEU:HD21	31:BS:175:VAL:C	1.79	1.05
12:Bf:680:ARG:HE	13:BA:74:PRO:HG3	0.89	1.05
16:AE:54:GLY:O	16:AE:102:MET:HE2	1.56	1.05
17:AF:97:LEU:HD13	17:AF:120:LYS:HE2	1.37	1.05
26:AN:138:TYR:HB2	26:BN:138:TYR:HA	1.08	1.05
28:AP:144:GLU:C	31:BS:144:MET:HA	1.78	1.05
28:AP:173:ASN:N	31:BS:157:ASN:ND2	2.04	1.05
12:Af:680:ARG:HE	13:AA:74:PRO:HG3	0.89	1.04
18:AC:346:LYS:O	18:AC:350:LEU:HD13	1.55	1.04
31:AS:157:ASN:HD22	28:BP:173:ASN:CA	1.70	1.04
31:AS:180:ILE:HG23	27:BO:195:LYS:HG3	1.36	1.04
9:Ac:168:MET:HA	9:Ac:172:HIS:HE1	1.15	1.04
30:AR:169:TYR:CE2	28:BP:32:ALA:CB	2.41	1.04
14:BB:103:ARG:CD	14:BB:107:MET:CE	2.35	1.04
28:AP:172:LEU:C	31:BS:157:ASN:ND2	2.14	1.04
12:Af:680:ARG:NE	13:AA:74:PRO:CG	2.15	1.04
13:AA:90:GLU:HG2	13:AA:94:GLN:HE22	1.22	1.04
3:AW:136:ILE:CG1	15:AD:392:TYR:CD1	2.33	1.03
26:AN:138:TYR:HA	26:BN:138:TYR:CD1	1.92	1.03
27:AO:199:LEU:HG	31:BS:176:LYS:HB2	1.09	1.03
28:AP:32:ALA:CB	30:BR:169:TYR:CE2	2.39	1.03
29:AQ:137:PHE:CA	30:BR:134:TYR:CE1	2.38	1.03
30:AR:134:TYR:CE1	29:BQ:137:PHE:CA	2.40	1.03
13:BA:90:GLU:HG2	13:BA:94:GLN:HE22	1.22	1.03
27:AO:195:LYS:HD2	31:BS:184:GLU:CG	1.89	1.03
27:AO:199:LEU:HD23	31:BS:173:ARG:C	1.79	1.03
14:AB:103:ARG:HG3	14:AB:160:ILE:HG21	1.04	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AP:147:TYR:HD1	31:BS:185:ARG:NE	1.43	1.02
31:AS:184:GLU:CG	27:BO:195:LYS:HD2	1.90	1.02
3:BW:141:GLU:OE2	15:BD:392:TYR:CE1	2.12	1.02
17:BF:84:LYS:HA	17:BF:161:LEU:HD22	1.40	1.02
27:AO:167:LEU:CD1	31:BS:33:PHE:CD1	2.15	1.02
3:BW:136:ILE:HG12	15:BD:392:TYR:HD1	1.08	1.02
3:AW:141:GLU:OE2	15:AD:392:TYR:CE1	2.12	1.02
31:AS:185:ARG:HA	27:BO:26:VAL:HG23	1.18	1.02
17:AF:97:LEU:HD13	17:AF:120:LYS:CE	1.91	1.01
31:AS:176:LYS:CB	27:BO:199:LEU:HG	1.90	1.01
31:AS:185:ARG:NE	28:BP:147:TYR:HD1	1.45	1.01
14:BB:100:ASP:CB	14:BB:103:ARG:HH12	1.73	1.01
18:BC:66:LEU:HG	18:BC:70:GLY:HA2	1.39	1.01
26:AN:138:TYR:CD1	26:BN:138:TYR:HA	1.95	1.01
27:AO:199:LEU:HG	31:BS:176:LYS:CB	1.90	1.01
31:AS:177:ASP:OD2	27:BO:200:GLY:N	1.93	1.01
9:Bc:46:ARG:HG3	16:BE:85:ARG:HH22	1.23	1.01
14:BB:103:ARG:HG3	14:BB:160:ILE:HG21	1.04	1.01
26:AN:134:TYR:CE2	32:BT:33:LEU:CD1	2.43	1.00
17:BF:97:LEU:HD13	17:BF:120:LYS:HE2	1.37	1.00
14:AB:100:ASP:HA	14:AB:103:ARG:CZ	1.92	1.00
14:AB:100:ASP:CB	14:AB:103:ARG:HH12	1.73	1.00
28:AP:173:ASN:CA	31:BS:157:ASN:HD22	1.73	1.00
29:AQ:169:LYS:NZ	30:BR:136:TYR:CE1	2.29	1.00
32:AT:33:LEU:CD1	26:BN:134:TYR:CE2	2.43	1.00
17:BF:97:LEU:HD13	17:BF:120:LYS:CE	1.91	1.00
27:AO:200:GLY:N	31:BS:177:ASP:OD2	1.92	1.00
27:AO:199:LEU:CG	31:BS:176:LYS:HB2	1.92	1.00
18:AC:70:GLY:O	18:AC:118:ASN:ND2	1.95	1.00
7:Ba:14:SER:CB	7:Ba:18:GLN:HG2	1.91	1.00
18:BC:133:PRO:O	18:BC:137:LEU:HB2	1.61	1.00
13:AA:90:GLU:O	13:AA:94:GLN:NE2	1.95	1.00
31:AS:159:GLN:HE21	27:BO:210:ALA:N	1.50	1.00
31:AS:174:LEU:C	27:BO:199:LEU:HD22	1.86	1.00
5:BY:177:ARG:HH12	18:BC:337:ASN:HD21	1.08	1.00
18:BC:136:SER:O	18:BC:140:VAL:HB	1.62	0.99
17:AF:84:LYS:HA	17:AF:161:LEU:HD22	1.40	0.99
13:BA:90:GLU:O	13:BA:94:GLN:NE2	1.95	0.99
18:AC:133:PRO:O	18:AC:137:LEU:HB2	1.61	0.99
27:AO:210:ALA:N	31:BS:159:GLN:HE21	1.51	0.99
30:AR:26:ILE:HD13	28:BP:177:ARG:N	1.72	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:180:ILE:HG22	27:BO:195:LYS:CD	1.93	0.99
14:BB:103:ARG:HD3	14:BB:107:MET:HE1	1.43	0.99
9:Ac:168:MET:HA	9:Ac:172:HIS:CE1	1.97	0.99
16:AE:50:LEU:HD11	17:AF:138:GLY:HA2	1.43	0.99
31:AS:180:ILE:C	27:BO:195:LYS:HE3	1.87	0.99
16:BE:50:LEU:HD11	17:BF:138:GLY:HA2	1.44	0.99
27:AO:24:MET:HE1	31:BS:187:VAL:HG23	1.44	0.99
18:AC:66:LEU:HG	18:AC:70:GLY:HA2	1.39	0.99
18:BC:70:GLY:O	18:BC:118:ASN:ND2	1.95	0.99
23:AK:101:PHE:CE1	30:AR:61:ARG:HB2	1.97	0.99
31:AS:176:LYS:HB2	27:BO:199:LEU:CG	1.92	0.99
31:AS:185:ARG:NH2	28:BP:147:TYR:CD1	2.22	0.99
7:Aa:14:SER:CB	7:Aa:18:GLN:HG2	1.92	0.98
27:AO:195:LYS:HZ2	31:BS:181:SER:HA	0.82	0.98
31:AS:185:ARG:CA	27:BO:26:VAL:HG21	1.81	0.98
9:Bc:49:VAL:O	16:BE:84:ARG:HB3	1.62	0.98
27:AO:195:LYS:HG3	31:BS:180:ILE:HG23	1.40	0.98
9:Ac:49:VAL:O	16:AE:84:ARG:HB3	1.62	0.98
26:AN:138:TYR:CB	26:BN:138:TYR:CB	2.31	0.98
30:AR:140:ASP:HB2	29:BQ:166:GLU:OE1	1.62	0.98
18:AC:136:SER:O	18:AC:140:VAL:HB	1.62	0.98
9:Bc:168:MET:HA	9:Bc:172:HIS:CE1	1.97	0.98
14:BB:100:ASP:HA	14:BB:103:ARG:CZ	1.92	0.98
12:Af:389:LYS:O	12:Af:393:ASP:HB2	1.64	0.98
29:AQ:169:LYS:HE3	30:BR:136:TYR:HD1	1.24	0.98
12:Bf:680:ARG:HE	13:BA:74:PRO:HG2	1.26	0.98
23:BK:101:PHE:CE1	30:BR:61:ARG:HB2	1.97	0.98
30:AR:136:TYR:CE1	29:BQ:169:LYS:NZ	2.30	0.98
27:AO:26:VAL:HG23	31:BS:185:ARG:HA	1.20	0.98
30:AR:136:TYR:HD1	29:BQ:169:LYS:HE3	1.27	0.97
27:AO:199:LEU:HD22	31:BS:174:LEU:C	1.89	0.97
30:AR:166:ARG:NH2	28:BP:35:VAL:CG2	2.20	0.97
27:AO:26:VAL:HG21	31:BS:184:GLU:O	1.64	0.97
27:AO:195:LYS:HE3	31:BS:180:ILE:C	1.89	0.97
5:BY:174:TRP:N	18:BC:334:ARG:O	1.97	0.97
30:AR:26:ILE:O	28:BP:177:ARG:CG	2.13	0.97
15:BD:114:ARG:NH2	18:BC:62:GLU:HG2	1.79	0.97
12:Bf:707:LEU:O	12:Bf:711:SER:HB2	1.65	0.96
15:AD:114:ARG:NH2	18:AC:62:GLU:HG2	1.79	0.96
5:AY:174:TRP:N	18:AC:334:ARG:O	1.97	0.96
29:AQ:166:GLU:OE1	30:BR:140:ASP:HB2	1.61	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:33:PHE:HD1	27:BO:167:LEU:CD1	1.65	0.96
27:AO:26:VAL:HG21	31:BS:185:ARG:CA	1.84	0.96
29:AQ:166:GLU:OE2	30:BR:140:ASP:C	2.09	0.96
31:AS:180:ILE:CG2	27:BO:195:LYS:CG	2.43	0.96
12:Bf:389:LYS:O	12:Bf:393:ASP:HB2	1.64	0.96
27:AO:24:MET:CE	31:BS:187:VAL:HG23	1.96	0.96
27:AO:139:GLU:OE2	32:BT:178:TYR:CD1	2.18	0.96
27:AO:193:ASN:ND2	31:BS:213:ASP:OD1	1.85	0.96
32:AT:178:TYR:CD1	27:BO:139:GLU:OE2	2.19	0.96
9:Bc:47:ALA:HA	16:BE:85:ARG:CZ	1.96	0.96
27:AO:165:ASN:ND2	32:BT:148:PRO:HB3	1.81	0.96
31:AS:173:ARG:CB	27:BO:199:LEU:O	2.14	0.96
9:Ac:47:ALA:HA	16:AE:85:ARG:CZ	1.96	0.96
14:AB:103:ARG:HD3	14:AB:107:MET:HE1	1.43	0.95
29:AQ:162:LYS:CA	30:BR:141:ARG:CZ	2.43	0.95
30:AR:166:ARG:HH21	28:BP:35:VAL:HG23	1.23	0.95
12:Bf:759:LEU:O	12:Bf:763:ARG:HB3	1.66	0.95
12:Af:759:LEU:O	12:Af:763:ARG:HB3	1.66	0.95
29:AQ:170:ARG:NH1	29:BQ:22:ALA:HA	1.81	0.95
18:BC:217:SER:HB3	18:BC:218:GLU:HB3	1.46	0.95
30:AR:141:ARG:CZ	29:BQ:162:LYS:CA	2.43	0.95
12:Af:680:ARG:HE	13:AA:74:PRO:HG2	1.26	0.95
17:AF:86:LEU:O	17:AF:154:ASN:OD1	1.85	0.95
31:AS:181:SER:HA	27:BO:195:LYS:HZ2	0.78	0.95
31:AS:184:GLU:O	27:BO:26:VAL:HG21	1.64	0.95
29:AQ:165:GLU:HB2	30:BR:141:ARG:HH22	1.15	0.95
26:AN:138:TYR:HA	26:BN:138:TYR:CG	2.02	0.95
9:Ac:47:ALA:HA	16:AE:85:ARG:NH1	1.80	0.95
12:Af:707:LEU:O	12:Af:711:SER:HB2	1.65	0.95
29:AQ:169:LYS:CE	30:BR:136:TYR:CD1	2.49	0.95
12:Af:530:CYS:SG	12:Af:565:ASN:ND2	2.39	0.95
28:AP:177:ARG:CG	30:BR:26:ILE:O	2.14	0.94
31:AS:157:ASN:ND2	28:BP:173:ASN:CA	2.29	0.94
31:AS:213:ASP:OD1	27:BO:193:ASN:ND2	1.82	0.94
9:Bc:47:ALA:HA	16:BE:85:ARG:NH1	1.80	0.94
30:AR:140:ASP:C	29:BQ:166:GLU:OE2	2.09	0.94
31:AS:187:VAL:HG23	27:BO:24:MET:HE1	1.46	0.94
18:AC:217:SER:HB3	18:AC:218:GLU:HB3	1.46	0.94
13:BA:416:VAL:O	13:BA:420:TYR:HB2	1.68	0.94
27:AO:195:LYS:CD	31:BS:180:ILE:HG22	1.96	0.94
9:Ac:46:ARG:HG3	16:AE:85:ARG:HH22	1.23	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AK:101:PHE:HE1	30:AR:61:ARG:HB2	1.32	0.94
27:AO:24:MET:CE	31:BS:187:VAL:CG2	2.46	0.94
31:AS:157:ASN:ND2	28:BP:173:ASN:HA	1.82	0.94
28:AP:35:VAL:CG2	30:BR:166:ARG:NH2	2.22	0.94
28:AP:176:ASP:C	30:BR:26:ILE:CD1	2.40	0.94
12:Bf:530:CYS:SG	12:Bf:565:ASN:ND2	2.39	0.94
18:BC:346:LYS:O	18:BC:350:LEU:CD1	2.16	0.94
13:AA:416:VAL:O	13:AA:420:TYR:HB2	1.68	0.93
26:AN:138:TYR:CG	26:BN:138:TYR:HA	2.02	0.93
28:AP:147:TYR:HB2	31:BS:144:MET:SD	2.09	0.93
31:AS:33:PHE:CD1	27:BO:167:LEU:HB2	2.02	0.93
32:AT:148:PRO:HB3	27:BO:165:ASN:ND2	1.83	0.93
31:AS:144:MET:SD	28:BP:147:TYR:HB2	2.07	0.93
17:BF:86:LEU:O	17:BF:154:ASN:OD1	1.85	0.93
30:AR:133:VAL:HG23	29:BQ:137:PHE:HB3	1.50	0.93
18:BC:69:GLN:OE1	18:BC:118:ASN:O	1.86	0.93
18:AC:346:LYS:O	18:AC:350:LEU:CD1	2.16	0.93
27:AO:167:LEU:HB2	31:BS:33:PHE:CD1	2.03	0.93
31:AS:174:LEU:C	27:BO:199:LEU:CD2	2.40	0.93
28:AP:173:ASN:HA	31:BS:157:ASN:ND2	1.84	0.93
29:AQ:22:ALA:HA	29:BQ:170:ARG:NH1	1.84	0.93
31:AS:185:ARG:CD	27:BO:26:VAL:HB	1.98	0.93
27:AO:26:VAL:CG2	31:BS:185:ARG:O	2.16	0.93
1:AU:517:GLY:O	1:AU:554:LEU:HD22	1.69	0.93
31:AS:187:VAL:HG23	27:BO:24:MET:CE	1.99	0.93
30:AR:169:TYR:HE2	28:BP:32:ALA:CB	1.81	0.92
30:AR:26:ILE:CG2	28:BP:177:ARG:HD3	1.99	0.92
31:AS:185:ARG:O	27:BO:26:VAL:CG2	2.15	0.92
3:BW:135:LYS:HA	15:BD:392:TYR:HB2	1.51	0.92
28:AP:147:TYR:HE1	31:BS:185:ARG:CZ	1.57	0.92
11:Be:1:MET:H3	11:Be:2:SER:HA	1.33	0.92
27:AO:199:LEU:O	31:BS:173:ARG:CB	2.17	0.92
1:BU:517:GLY:O	1:BU:554:LEU:HD22	1.69	0.92
7:Ba:14:SER:HB2	7:Ba:18:GLN:HG2	1.51	0.92
18:AC:69:GLN:OE1	18:AC:118:ASN:O	1.86	0.92
4:AX:122:ARG:NH2	20:AH:185:GLU:HG2	1.85	0.92
17:AF:176:GLU:HG3	17:AF:250:LYS:HB2	1.50	0.92
27:AO:167:LEU:CD1	31:BS:33:PHE:HD1	1.67	0.92
3:AW:136:ILE:HG13	15:AD:392:TYR:HA	1.50	0.92
5:AY:177:ARG:HH12	18:AC:337:ASN:HD21	1.08	0.92
14:BB:100:ASP:CA	14:BB:103:ARG:NH1	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:199:LEU:CD2	31:BS:174:LEU:C	2.43	0.91
30:AR:166:ARG:HH21	28:BP:35:VAL:CG2	1.81	0.91
14:AB:103:ARG:HG3	14:AB:160:ILE:CG2	1.98	0.91
28:AP:35:VAL:HG23	30:BR:166:ARG:HH21	1.25	0.91
30:AR:136:TYR:CD1	29:BQ:169:LYS:CE	2.51	0.91
27:AO:195:LYS:CG	31:BS:180:ILE:CG2	2.46	0.91
29:AQ:137:PHE:HB3	30:BR:133:VAL:HG23	1.52	0.91
28:AP:173:ASN:CA	31:BS:157:ASN:ND2	2.32	0.91
31:AS:187:VAL:CG2	27:BO:24:MET:CE	2.48	0.91
11:Ae:1:MET:H3	11:Ae:2:SER:HA	1.34	0.91
27:AO:195:LYS:HE2	31:BS:180:ILE:HG22	0.92	0.91
30:AR:26:ILE:CD1	28:BP:175:VAL:O	2.18	0.91
27:AO:140:ASP:CG	32:BT:171:ARG:HH21	1.79	0.91
28:AP:175:VAL:O	30:BR:26:ILE:CD1	2.19	0.91
32:AT:171:ARG:HH21	27:BO:140:ASP:CG	1.79	0.91
17:BF:85:THR:HA	17:BF:86:LEU:HD23	1.53	0.91
18:BC:69:GLN:OE1	18:BC:118:ASN:C	2.14	0.91
31:AS:180:ILE:HG22	27:BO:195:LYS:HE2	0.92	0.91
32:AT:33:LEU:HD13	26:BN:134:TYR:HE2	1.27	0.91
3:AW:135:LYS:HA	15:AD:392:TYR:HB2	1.51	0.91
28:AP:32:ALA:CB	30:BR:169:TYR:HE2	1.79	0.90
4:BX:122:ARG:NH2	20:BH:185:GLU:HG2	1.85	0.90
17:BF:87:PRO:HA	17:BF:154:ASN:OD1	1.71	0.90
28:AP:173:ASN:ND2	31:BS:151:ASN:ND2	2.18	0.90
32:AT:33:LEU:CD1	26:BN:166:ARG:HG3	2.01	0.90
12:Bf:179:VAL:HG12	12:Bf:183:PRO:HD3	1.54	0.90
28:AP:144:GLU:O	31:BS:144:MET:CA	2.19	0.90
29:AQ:169:LYS:CE	30:BR:136:TYR:HD1	1.84	0.90
31:AS:159:GLN:HE22	27:BO:210:ALA:CA	1.84	0.90
3:BW:136:ILE:HG13	15:BD:392:TYR:HA	1.50	0.90
17:BF:97:LEU:HD13	17:BF:120:LYS:CG	2.02	0.90
26:AN:133:SER:O	26:BN:134:TYR:HA	1.71	0.90
26:AN:134:TYR:HE2	32:BT:33:LEU:HD13	1.27	0.90
28:AP:176:ASP:O	30:BR:26:ILE:HG21	1.70	0.90
31:AS:185:ARG:CZ	28:BP:147:TYR:HD1	1.66	0.90
17:BF:381:TYR:O	17:BF:385:ALA:HB2	1.71	0.90
6:AZ:222:ILE:HG23	6:AZ:223:ASN:HB3	1.54	0.90
14:AB:100:ASP:CA	14:AB:103:ARG:NH1	2.33	0.90
27:AO:26:VAL:HB	31:BS:185:ARG:CD	2.01	0.90
28:AP:177:ARG:HD3	30:BR:26:ILE:CG2	2.01	0.90
31:AS:151:ASN:ND2	28:BP:173:ASN:ND2	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BF:176:GLU:HG3	17:BF:250:LYS:HB2	1.50	0.90
17:AF:97:LEU:CD1	17:AF:120:LYS:HG3	2.01	0.90
17:BF:97:LEU:CD1	17:BF:120:LYS:HG3	2.01	0.90
12:Af:747:GLN:NE2	14:AB:117:ASP:OD2	2.05	0.90
18:AC:69:GLN:OE1	18:AC:118:ASN:C	2.14	0.90
12:Bf:747:GLN:NE2	14:BB:117:ASP:OD2	2.05	0.90
7:Aa:14:SER:HB2	7:Aa:18:GLN:HG2	1.51	0.90
12:Af:179:VAL:HG12	12:Af:183:PRO:HD3	1.54	0.89
26:AN:134:TYR:HD1	26:BN:133:SER:O	1.53	0.89
6:BZ:222:ILE:HG23	6:BZ:223:ASN:HB3	1.54	0.89
30:AR:134:TYR:HE1	29:BQ:137:PHE:CB	1.50	0.89
15:AD:366:ARG:HG3	15:AD:367:PRO:HD3	1.54	0.89
17:AF:97:LEU:HD13	17:AF:120:LYS:CG	2.02	0.89
31:AS:144:MET:CA	28:BP:144:GLU:O	2.19	0.89
28:AP:175:VAL:O	30:BR:26:ILE:HD11	1.73	0.89
31:AS:176:LYS:H	27:BO:199:LEU:HD21	1.37	0.89
17:AF:87:PRO:HA	17:AF:154:ASN:OD1	1.71	0.89
31:AS:176:LYS:H	27:BO:199:LEU:CD2	1.85	0.89
28:AP:177:ARG:NH2	31:BS:150:ASP:OD2	2.06	0.89
12:Bf:550:LEU:HD12	12:Bf:551:LYS:H	1.37	0.89
14:BB:103:ARG:HD2	14:BB:107:MET:CE	2.00	0.89
23:BK:101:PHE:HE1	30:BR:61:ARG:HB2	1.32	0.89
17:AF:381:TYR:O	17:AF:385:ALA:HB2	1.71	0.89
27:AO:210:ALA:CA	31:BS:159:GLN:HE22	1.86	0.89
31:AS:150:ASP:OD2	28:BP:177:ARG:NH2	2.05	0.89
31:AS:185:ARG:CZ	28:BP:147:TYR:HE1	1.57	0.89
14:BB:103:ARG:CG	14:BB:160:ILE:HG21	1.98	0.89
30:AR:136:TYR:HD1	29:BQ:169:LYS:CE	1.86	0.89
12:Af:550:LEU:HD12	12:Af:551:LYS:H	1.37	0.88
30:AR:26:ILE:HG21	28:BP:176:ASP:O	1.72	0.88
30:AR:26:ILE:HD11	28:BP:175:VAL:O	1.72	0.88
28:AP:147:TYR:HE1	31:BS:185:ARG:NH2	1.57	0.88
28:AP:149:MET:SD	31:BS:148:LEU:HB2	2.12	0.88
31:AS:174:LEU:HA	27:BO:202:TYR:OH	1.74	0.88
20:AH:167:TYR:O	20:AH:171:LYS:HB2	1.74	0.88
28:AP:144:GLU:C	31:BS:144:MET:CA	2.43	0.88
30:AR:191:ASN:OD1	28:BP:203:ARG:NH2	2.05	0.88
31:AS:148:LEU:HB2	28:BP:149:MET:SD	2.13	0.88
17:AF:85:THR:HA	17:AF:86:LEU:HD23	1.53	0.88
26:AN:134:TYR:HA	26:BN:133:SER:O	1.73	0.88
28:AP:35:VAL:CG2	30:BR:166:ARG:HH21	1.82	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:103:ARG:CG	14:AB:160:ILE:HG21	1.98	0.88
30:AR:26:ILE:CD1	28:BP:176:ASP:C	2.42	0.88
31:AS:180:ILE:HG23	27:BO:195:LYS:CG	2.04	0.88
20:BH:167:TYR:O	20:BH:171:LYS:HB2	1.74	0.88
5:BY:179:ARG:NH2	5:BY:212:GLU:OE2	2.07	0.88
14:BB:103:ARG:HG3	14:BB:160:ILE:CG2	1.98	0.87
5:AY:179:ARG:NH2	5:AY:212:GLU:OE2	2.07	0.87
12:Af:776:LEU:HB3	12:Af:777:THR:HB	1.55	0.87
14:AB:103:ARG:O	14:AB:107:MET:CE	2.22	0.87
13:AA:229:VAL:HG22	13:AA:237:PHE:HZ	1.39	0.87
26:AN:133:SER:O	26:BN:134:TYR:HD1	1.55	0.87
26:AN:166:ARG:HG3	32:BT:33:LEU:CD1	2.03	0.87
12:Bf:776:LEU:HB3	12:Bf:777:THR:HB	1.55	0.87
29:AQ:141:SER:OG	30:BR:137:GLY:HA3	1.75	0.87
30:AR:26:ILE:C	28:BP:177:ARG:CD	2.46	0.87
12:Bf:810:ILE:O	12:Bf:814:SER:HB3	1.74	0.87
27:AO:195:LYS:HZ1	31:BS:181:SER:CA	1.87	0.87
30:AR:137:GLY:HA3	29:BQ:141:SER:OG	1.74	0.86
13:BA:229:VAL:HG22	13:BA:237:PHE:HZ	1.39	0.86
17:BF:97:LEU:HD13	17:BF:120:LYS:HG3	1.57	0.86
12:Af:810:ILE:O	12:Af:814:SER:HB3	1.74	0.86
12:Bf:655:LEU:O	12:Bf:659:LEU:HB2	1.75	0.86
15:AD:269:ALA:HB1	16:AE:255:ARG:HG3	1.57	0.86
28:AP:177:ARG:CD	30:BR:26:ILE:C	2.47	0.86
31:AS:181:SER:N	27:BO:195:LYS:NZ	2.23	0.86
15:BD:366:ARG:HG3	15:BD:367:PRO:HD3	1.54	0.86
9:Ac:46:ARG:C	16:AE:85:ARG:HH22	1.84	0.86
27:AO:195:LYS:HB2	31:BS:184:GLU:OE2	1.76	0.86
12:Bf:305:LEU:HG	12:Bf:337:LEU:HD13	1.58	0.86
27:AO:202:TYR:OH	31:BS:174:LEU:HA	1.76	0.86
14:BB:103:ARG:O	14:BB:107:MET:CE	2.22	0.86
28:AP:203:ARG:NH2	30:BR:191:ASN:OD1	2.08	0.86
31:AS:173:ARG:HB2	27:BO:199:LEU:C	2.01	0.86
12:Af:655:LEU:O	12:Af:659:LEU:HB2	1.75	0.85
31:AS:159:GLN:HE22	27:BO:210:ALA:N	1.70	0.85
18:BC:69:GLN:HG2	18:BC:118:ASN:HB2	1.58	0.85
12:Af:305:LEU:HG	12:Af:337:LEU:HD13	1.58	0.85
14:AB:103:ARG:HD2	14:AB:107:MET:CE	2.00	0.85
31:AS:184:GLU:OE2	27:BO:195:LYS:HB2	1.77	0.85
24:AL:160:SER:O	24:AL:169:ARG:NH2	2.09	0.85
12:Af:612:LEU:O	12:Af:616:CYS:HB3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BL:160:SER:O	24:BL:169:ARG:NH2	2.09	0.85
30:AR:169:TYR:HE2	28:BP:32:ALA:HB2	1.03	0.85
18:AC:69:GLN:HG2	18:AC:118:ASN:HB2	1.58	0.85
31:AS:180:ILE:CG2	27:BO:195:LYS:CD	2.53	0.85
9:Bc:50:PRO:HD2	16:BE:84:ARG:HD2	1.59	0.85
17:AF:97:LEU:HD13	17:AF:120:LYS:HG3	1.56	0.84
16:BE:186:ALA:O	16:BE:190:GLN:HB2	1.77	0.84
12:Af:680:ARG:HB3	13:AA:74:PRO:HB3	1.57	0.84
29:AQ:137:PHE:HB3	30:BR:133:VAL:CG2	2.08	0.84
24:BL:120:THR:O	25:BM:129:ARG:NH1	2.09	0.84
9:Bc:46:ARG:C	16:BE:85:ARG:HH22	1.84	0.84
15:BD:269:ALA:HB1	16:BE:255:ARG:HG3	1.57	0.84
13:AA:375:ARG:NH2	23:AK:205:VAL:O	2.10	0.84
2:BV:57:ALA:HB3	2:BV:58:ALA:HB3	1.60	0.84
16:AE:186:ALA:O	16:AE:190:GLN:HB2	1.77	0.84
27:AO:195:LYS:NZ	31:BS:181:SER:N	2.25	0.84
27:AO:195:LYS:HD2	31:BS:184:GLU:HG2	1.60	0.84
22:BJ:115:LYS:NZ	22:BJ:129:ILE:O	2.11	0.84
2:AV:57:ALA:HB3	2:AV:58:ALA:HB3	1.60	0.84
16:AE:75:ASN:HD21	17:AF:130:GLN:HA	1.42	0.84
12:Af:470:VAL:HB	12:Af:478:ARG:HG2	1.60	0.84
27:AO:195:LYS:CG	31:BS:180:ILE:HG23	2.07	0.84
24:AL:120:THR:O	25:AM:129:ARG:NH1	2.09	0.83
22:AJ:115:LYS:NZ	22:AJ:129:ILE:O	2.11	0.83
28:AP:177:ARG:N	30:BR:26:ILE:HD13	1.74	0.83
2:AV:153:LYS:O	2:AV:157:THR:HG23	1.79	0.83
31:AS:181:SER:CA	27:BO:195:LYS:HZ1	1.89	0.83
2:BV:153:LYS:O	2:BV:157:THR:HG23	1.79	0.83
3:BW:40:LEU:HB2	3:BW:41:GLN:HA	1.60	0.83
12:Bf:612:LEU:O	12:Bf:616:CYS:HB3	1.76	0.83
9:Ac:50:PRO:HD2	16:AE:84:ARG:HD2	1.59	0.83
17:AF:191:LEU:HG	17:AF:194:GLN:HE21	1.42	0.83
24:AL:121:GLN:HG3	25:AM:129:ARG:HG2	1.58	0.83
2:BV:321:ALA:HB1	2:BV:322:VAL:HB	1.59	0.83
12:Bf:680:ARG:HB3	13:BA:74:PRO:HB3	1.57	0.83
30:AR:133:VAL:CG2	29:BQ:137:PHE:HB3	2.07	0.83
18:BC:69:GLN:OE1	18:BC:118:ASN:HB2	1.78	0.83
31:AS:38:ARG:NH2	27:BO:164:PHE:O	2.10	0.83
2:AV:321:ALA:HB1	2:AV:322:VAL:HB	1.59	0.83
16:AE:266:GLY:HA2	16:AE:267:PHE:HB2	1.61	0.83
16:BE:75:ASN:HD21	17:BF:130:GLN:HA	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:40:LEU:HB2	3:AW:41:GLN:HA	1.60	0.83
31:AS:185:ARG:NH2	28:BP:147:TYR:HE1	1.55	0.83
13:BA:375:ARG:NH2	23:BK:205:VAL:O	2.11	0.83
5:AY:97:GLU:OE2	18:AC:162:LYS:HD3	1.77	0.82
6:AZ:33:LYS:NZ	6:AZ:34:ARG:O	2.12	0.82
24:AL:62:LYS:HZ1	24:AL:75:ALA:HA	1.44	0.82
31:AS:144:MET:CE	28:BP:147:TYR:HB2	2.08	0.82
3:BW:47:LEU:O	3:BW:51:GLU:OE1	1.97	0.82
17:BF:191:LEU:HG	17:BF:194:GLN:HE21	1.42	0.82
9:Bc:154:LYS:NZ	15:BD:81:ARG:NH1	2.27	0.82
14:BB:199:GLU:O	14:BB:203:LEU:N	2.12	0.82
12:Bf:470:VAL:HB	12:Bf:478:ARG:HG2	1.60	0.82
18:BC:22:GLN:HA	18:BC:25:LEU:HD13	1.61	0.82
27:AO:24:MET:HE3	31:BS:187:VAL:CG2	2.09	0.82
28:AP:32:ALA:HB2	30:BR:169:TYR:HE2	1.02	0.82
31:AS:184:GLU:HG2	27:BO:195:LYS:HD2	1.60	0.82
5:BY:97:GLU:OE2	18:BC:162:LYS:HD3	1.77	0.82
18:BC:69:GLN:CG	18:BC:118:ASN:HB2	2.10	0.82
12:Af:687:ARG:HH12	13:AA:78:TRP:CB	1.92	0.82
14:AB:100:ASP:CA	14:AB:103:ARG:HH12	1.93	0.82
12:Bf:410:ALA:HA	12:Bf:413:SER:HB2	1.62	0.82
12:Bf:687:ARG:HH12	13:BA:78:TRP:CB	1.92	0.82
9:Ac:154:LYS:NZ	15:AD:81:ARG:NH1	2.27	0.82
27:AO:195:LYS:HD2	31:BS:184:GLU:HG3	1.62	0.82
13:BA:83:ASP:OD1	14:BB:137:SER:OG	1.98	0.82
16:BE:50:LEU:HD11	17:BF:138:GLY:CA	2.10	0.82
24:BL:121:GLN:HG3	25:BM:129:ARG:HG2	1.58	0.82
6:AZ:224:HIS:HB3	6:AZ:225:GLN:HA	1.60	0.82
31:AS:180:ILE:HG21	27:BO:195:LYS:HE2	1.60	0.82
31:AS:187:VAL:HG22	27:BO:24:MET:HE3	1.62	0.81
9:Ac:154:LYS:HZ1	15:AD:81:ARG:HH12	1.28	0.81
14:AB:199:GLU:O	14:AB:203:LEU:N	2.12	0.81
6:BZ:33:LYS:NZ	6:BZ:34:ARG:O	2.12	0.81
9:Bc:154:LYS:HZ1	15:BD:81:ARG:HH12	1.28	0.81
14:BB:211:TYR:HE1	14:BB:218:PRO:HD2	1.45	0.81
18:AC:69:GLN:OE1	18:AC:118:ASN:HB2	1.78	0.81
18:AC:162:LYS:O	18:AC:166:GLU:HB2	1.81	0.81
27:AO:24:MET:HE3	31:BS:187:VAL:HG22	1.60	0.81
27:AO:195:LYS:HE2	31:BS:180:ILE:HG21	1.59	0.81
27:AO:199:LEU:HD12	31:BS:177:ASP:OD1	1.79	0.81
27:AO:199:LEU:C	31:BS:173:ARG:HB2	2.04	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:235:LEU:O	14:AB:239:VAL:HB	1.80	0.81
27:AO:164:PHE:O	31:BS:38:ARG:NH2	2.12	0.81
16:AE:146:ARG:HH22	16:AE:190:GLN:HG2	1.45	0.81
27:AO:195:LYS:CD	31:BS:180:ILE:CG2	2.55	0.81
3:AW:47:LEU:O	3:AW:51:GLU:OE1	1.97	0.81
31:AS:180:ILE:CG2	27:BO:195:LYS:HG3	2.08	0.81
15:BD:89:ILE:HD11	16:BE:80:VAL:HG13	1.63	0.81
16:AE:50:LEU:CD1	17:AF:138:GLY:HA2	2.10	0.81
18:AC:22:GLN:HA	18:AC:25:LEU:HD13	1.61	0.81
31:AS:177:ASP:OD1	27:BO:199:LEU:HD12	1.79	0.81
12:Bf:244:GLU:O	12:Bf:248:LEU:CB	2.29	0.81
14:AB:211:TYR:HE1	14:AB:218:PRO:HD2	1.45	0.81
18:AC:69:GLN:CG	18:AC:118:ASN:HB2	2.10	0.81
6:BZ:224:HIS:HB3	6:BZ:225:GLN:HA	1.60	0.81
16:AE:50:LEU:HD11	17:AF:138:GLY:CA	2.10	0.81
16:BE:266:GLY:HA2	16:BE:267:PHE:HB2	1.61	0.81
14:AB:103:ARG:HD3	14:AB:107:MET:CE	2.05	0.80
31:AS:185:ARG:HE	28:BP:147:TYR:HD1	1.29	0.80
16:AE:178:THR:OG1	34:AE:401:ATP:O2A	1.99	0.80
5:BY:174:TRP:HB3	18:BC:334:ARG:O	1.81	0.80
14:BB:235:LEU:O	14:BB:239:VAL:HB	1.80	0.80
27:AO:199:LEU:CD2	31:BS:176:LYS:H	1.86	0.80
12:Af:662:MET:SD	12:Af:828:ARG:NH1	2.55	0.80
12:Af:410:ALA:HA	12:Af:413:SER:HB2	1.62	0.80
17:AF:168:TYR:HB2	17:AF:169:ASP:HB2	1.64	0.80
27:AO:195:LYS:HG3	31:BS:180:ILE:CG2	2.12	0.80
28:AP:147:TYR:HD1	31:BS:185:ARG:HE	1.28	0.80
16:BE:50:LEU:CD1	17:BF:138:GLY:HA2	2.10	0.80
5:AY:174:TRP:HB3	18:AC:334:ARG:O	1.81	0.80
26:AN:134:TYR:CD1	26:BN:136:TYR:HD2	1.99	0.80
4:BX:87:ARG:HD2	20:BH:231:ALA:HB3	1.63	0.80
14:BB:103:ARG:HD3	14:BB:107:MET:CE	2.05	0.80
16:BE:146:ARG:HH22	16:BE:190:GLN:HG2	1.45	0.80
16:BE:178:THR:OG1	34:BE:401:ATP:O2A	1.99	0.80
4:AX:87:ARG:HD2	20:AH:231:ALA:HB3	1.63	0.80
9:Bc:124:GLY:O	9:Bc:128:ASN:ND2	2.14	0.80
12:Bf:662:MET:SD	12:Bf:828:ARG:NH1	2.54	0.80
12:Af:822:VAL:HG13	12:Af:823:ALA:HB2	1.64	0.80
15:BD:151:ILE:HB	15:BD:152:MET:HA	1.64	0.80
3:AW:257:GLN:HA	3:AW:258:ALA:HB3	1.64	0.80
28:AP:147:TYR:HB2	31:BS:144:MET:CE	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:187:VAL:CG2	27:BO:24:MET:HE3	2.12	0.80
16:BE:54:GLY:O	16:BE:102:MET:CE	2.29	0.80
18:BC:162:LYS:O	18:BC:166:GLU:HB2	1.81	0.80
21:AI:13:SER:O	22:AJ:21:TYR:OH	1.99	0.80
12:Af:381:VAL:HA	12:Af:390:LEU:HD11	1.64	0.79
26:AN:136:TYR:HD2	26:BN:134:TYR:CD1	2.00	0.79
29:AQ:165:GLU:CB	30:BR:141:ARG:HH22	1.94	0.79
31:AS:184:GLU:HG3	27:BO:195:LYS:HD2	1.62	0.79
3:AW:92:LYS:H	3:AW:93:ARG:HB3	1.46	0.79
13:AA:106:SER:HB3	13:AA:110:LYS:HG3	1.63	0.79
6:AZ:14:LEU:HG	9:Ac:39:LEU:HB3	1.65	0.79
9:Bc:154:LYS:HE3	15:BD:81:ARG:HH22	1.46	0.79
13:BA:283:ALA:H	13:BA:326:THR:HG21	1.46	0.79
13:AA:83:ASP:OD1	14:AB:137:SER:OG	1.98	0.79
26:AN:166:ARG:HH21	26:BN:140:ASP:CG	1.91	0.79
12:Bf:231:LEU:HD21	12:Bf:272:LEU:HD13	1.65	0.79
14:BB:103:ARG:HD3	14:BB:107:MET:SD	2.22	0.79
21:BI:13:SER:O	22:BJ:21:TYR:OH	1.99	0.79
22:BJ:18:GLN:O	22:BJ:22:ALA:HB2	1.83	0.79
21:BI:218:ARG:NH1	21:BI:223:THR:OG1	2.16	0.79
2:AV:255:LEU:HD22	2:AV:291:TYR:HB3	1.65	0.79
3:AW:268:LYS:HD3	3:AW:299:ILE:HG21	1.64	0.79
9:Ac:124:GLY:O	9:Ac:128:ASN:ND2	2.14	0.79
14:AB:103:ARG:HD3	14:AB:107:MET:SD	2.22	0.79
18:AC:184:LYS:HG3	18:AC:311:ILE:HD12	1.64	0.79
29:AQ:137:PHE:HA	30:BR:134:TYR:HE1	1.28	0.79
2:BV:228:ARG:HH21	2:BV:257:ASN:HB3	1.48	0.79
17:BF:97:LEU:CD1	17:BF:120:LYS:HE2	2.13	0.79
13:AA:283:ALA:H	13:AA:326:THR:HG21	1.46	0.79
31:AS:180:ILE:CB	27:BO:195:LYS:HE3	2.13	0.79
12:Bf:822:VAL:HG13	12:Bf:823:ALA:HB2	1.64	0.79
15:AD:136:SER:HB3	18:AC:67:GLN:CD	2.08	0.79
22:AJ:18:GLN:O	22:AJ:22:ALA:HB2	1.83	0.79
27:AO:26:VAL:CG2	31:BS:185:ARG:C	2.44	0.79
31:AS:148:LEU:CB	28:BP:149:MET:SD	2.71	0.79
3:BW:136:ILE:H	3:BW:141:GLU:HG2	1.48	0.79
13:BA:106:SER:HB3	13:BA:110:LYS:HG3	1.63	0.79
9:Ac:154:LYS:HE3	15:AD:81:ARG:HH22	1.46	0.79
16:AE:182:LEU:HD11	34:AE:401:ATP:H2'	1.64	0.79
1:BU:474:ARG:HH21	1:BU:500:ASN:HB2	1.48	0.79
12:Bf:498:LEU:HD12	12:Bf:499:THR:HG23	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BF:168:TYR:HB2	17:BF:169:ASP:HB2	1.64	0.79
6:BZ:14:LEU:HG	9:Bc:39:LEU:HB3	1.64	0.79
24:BL:152:ASN:HA	25:BM:85:ARG:HH22	1.48	0.78
1:AU:799:LYS:HA	1:AU:843:GLU:HG3	1.65	0.78
10:Ad:188:LYS:HD2	10:Ad:221:ASN:HD21	1.48	0.78
15:AD:151:ILE:HB	15:AD:152:MET:HA	1.64	0.78
31:AS:33:PHE:CD1	27:BO:167:LEU:CB	2.65	0.78
16:BE:182:LEU:HD11	34:BE:401:ATP:H2'	1.64	0.78
17:AF:86:LEU:HB2	17:AF:88:TYR:CE1	2.18	0.78
21:AI:218:ARG:NH1	21:AI:223:THR:OG1	2.16	0.78
27:AO:167:LEU:CB	31:BS:33:PHE:CD1	2.66	0.78
31:AS:159:GLN:N	27:BO:208:THR:OG1	2.17	0.78
17:BF:86:LEU:HB2	17:BF:88:TYR:CE1	2.18	0.78
27:AO:198:ARG:NH2	28:AP:152:SER:O	2.17	0.78
31:AS:159:GLN:NE2	27:BO:210:ALA:CA	2.45	0.78
3:BW:92:LYS:H	3:BW:93:ARG:HB3	1.47	0.78
10:Bd:147:SER:HA	10:Bd:148:TYR:HB2	1.65	0.78
3:AW:136:ILE:H	3:AW:141:GLU:HG2	1.48	0.78
30:AR:26:ILE:HD11	28:BP:178:ASP:O	1.82	0.78
1:BU:154:ALA:HB2	1:BU:166:THR:HG21	1.65	0.78
17:AF:97:LEU:CD1	17:AF:120:LYS:HE2	2.13	0.78
1:AU:154:ALA:HB2	1:AU:166:THR:HG21	1.65	0.78
10:Ad:147:SER:HA	10:Ad:148:TYR:HB2	1.65	0.78
10:Ad:244:LYS:HA	10:Ad:247:ILE:HD12	1.66	0.78
15:AD:89:ILE:HD11	16:AE:80:VAL:HG13	1.63	0.78
31:AS:185:ARG:NH1	28:BP:147:TYR:HE1	1.68	0.78
31:AS:184:GLU:C	27:BO:26:VAL:HG21	2.09	0.78
3:BW:268:LYS:HD3	3:BW:299:ILE:HG21	1.64	0.78
9:Bc:121:TRP:HA	9:Bc:196:LEU:HD11	1.66	0.78
14:BB:100:ASP:CA	14:BB:103:ARG:HH12	1.93	0.78
4:BX:83:ALA:HA	20:BH:229:TYR:HD1	1.49	0.78
12:Bf:381:VAL:HA	12:Bf:390:LEU:HD11	1.64	0.78
12:Af:244:GLU:O	12:Af:248:LEU:CB	2.29	0.78
13:AA:248:LYS:HG3	14:AB:260:LEU:HB2	1.66	0.78
13:BA:248:LYS:HG3	14:BB:260:LEU:HB2	1.66	0.78
15:BD:113:VAL:HA	18:BC:66:LEU:HD11	1.66	0.78
15:BD:136:SER:HB3	18:BC:67:GLN:CD	2.08	0.78
2:AV:494:MET:HG3	6:AZ:278:ASN:HD22	1.49	0.77
12:Af:278:VAL:O	12:Af:282:PHE:HB2	1.85	0.77
21:AI:148:TYR:HA	21:AI:158:GLY:HA2	1.67	0.77
27:AO:210:ALA:N	31:BS:159:GLN:HE22	1.73	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AP:176:ASP:O	30:BR:26:ILE:HD13	1.83	0.77
4:BX:198:ASN:O	18:BC:392:GLN:NE2	2.17	0.77
16:AE:54:GLY:O	16:AE:102:MET:CE	2.29	0.77
24:AL:152:ASN:HA	25:AM:85:ARG:HH22	1.48	0.77
26:AN:138:TYR:HA	26:BN:138:TYR:HD1	1.49	0.77
27:AO:210:ALA:CA	31:BS:159:GLN:NE2	2.45	0.77
30:AR:26:ILE:HB	28:BP:177:ARG:HG3	1.67	0.77
1:BU:799:LYS:HA	1:BU:843:GLU:HG3	1.65	0.77
3:BW:406:VAL:HG12	3:BW:413:ILE:HB	1.65	0.77
28:AP:178:ASP:O	30:BR:26:ILE:HD11	1.83	0.77
16:AE:109:ARG:NH1	17:AF:121:CYS:SG	2.58	0.77
2:BV:494:MET:HG3	6:BZ:278:ASN:HD22	1.49	0.77
3:BW:257:GLN:HA	3:BW:258:ALA:HB3	1.64	0.77
6:BZ:128:PRO:HG3	9:Bc:216:MET:HB3	1.67	0.77
10:Bd:244:LYS:HA	10:Bd:247:ILE:HD12	1.65	0.77
21:BI:148:TYR:HA	21:BI:158:GLY:HA2	1.67	0.77
3:AW:416:GLN:HB3	3:AW:417:ARG:HA	1.67	0.77
22:AJ:120:GLN:O	23:AK:134:SER:OG	2.02	0.77
26:AN:140:ASP:CG	26:BN:166:ARG:HH21	1.93	0.77
31:AS:4:PRO:HB2	32:AT:100:ARG:HH21	1.50	0.77
10:Bd:188:LYS:HD2	10:Bd:221:ASN:HD21	1.48	0.77
12:Bf:478:ARG:NH1	12:Bf:507:ASP:OD2	2.15	0.77
13:BA:355:PHE:O	13:BA:359:ALA:HB2	1.84	0.77
27:BO:198:ARG:NH2	28:BP:152:SER:O	2.17	0.77
15:AD:113:VAL:HA	18:AC:66:LEU:HD11	1.66	0.77
26:AN:136:TYR:HB2	26:BN:134:TYR:HB3	1.66	0.77
32:AT:33:LEU:HD13	26:BN:134:TYR:CZ	2.19	0.77
13:BA:174:TYR:HD1	13:BA:227:ARG:HE	1.29	0.77
15:BD:201:GLY:HA3	15:BD:327:LEU:HA	1.67	0.77
21:BI:194:ILE:O	21:BI:198:ASN:HB2	1.84	0.77
24:BL:88:MET:HE1	24:BL:108:LEU:HD21	1.67	0.77
12:Af:231:LEU:HD21	12:Af:272:LEU:HD13	1.65	0.77
21:AI:194:ILE:O	21:AI:198:ASN:HB2	1.84	0.77
23:AK:100:TRP:O	30:AR:57:ARG:NH2	2.18	0.77
26:AN:134:TYR:HB3	26:BN:136:TYR:HB2	1.66	0.77
31:AS:185:ARG:HD3	27:BO:26:VAL:CB	2.10	0.77
9:Ac:154:LYS:CE	15:AD:81:ARG:NH2	2.48	0.77
13:AA:174:TYR:HD1	13:AA:227:ARG:HE	1.30	0.77
31:AS:185:ARG:HA	27:BO:26:VAL:CB	2.12	0.77
4:AX:83:ALA:HA	20:AH:229:TYR:HD1	1.49	0.77
9:Ac:121:TRP:HA	9:Ac:196:LEU:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AN:134:TYR:CZ	32:BT:33:LEU:HD13	2.18	0.77
27:AO:195:LYS:HE3	31:BS:180:ILE:CB	2.15	0.77
20:BH:39:LYS:HE2	20:BH:144:PRO:HG2	1.67	0.77
24:AL:88:MET:HE1	24:AL:108:LEU:HD21	1.67	0.77
1:BU:554:LEU:O	1:BU:554:LEU:HD23	1.84	0.77
24:BL:62:LYS:HZ1	24:BL:75:ALA:HA	1.49	0.77
4:AX:198:ASN:O	18:AC:392:GLN:NE2	2.17	0.76
6:AZ:128:PRO:HG3	9:Ac:216:MET:HB3	1.67	0.76
17:AF:275:ALA:HB1	17:AF:326:VAL:HG11	1.68	0.76
27:AO:139:GLU:OE2	32:BT:178:TYR:CG	2.38	0.76
18:BC:66:LEU:HG	18:BC:70:GLY:CA	2.15	0.76
1:AU:554:LEU:HD23	1:AU:554:LEU:O	1.84	0.76
14:AB:100:ASP:HB3	14:AB:103:ARG:HH12	1.50	0.76
18:BC:184:LYS:HG3	18:BC:311:ILE:HD12	1.64	0.76
12:Af:278:VAL:O	12:Af:282:PHE:CB	2.33	0.76
16:AE:345:ASN:ND2	17:AF:345:SER:H	1.83	0.76
31:AS:143:ALA:HB3	28:BP:144:GLU:CG	2.15	0.76
2:BV:255:LEU:HD22	2:BV:291:TYR:HB3	1.65	0.76
12:Bf:707:LEU:O	12:Bf:711:SER:CB	2.32	0.76
15:BD:81:ARG:NE	15:BD:82:ILE:HD11	2.01	0.76
22:BJ:120:GLN:O	23:BK:134:SER:OG	2.02	0.76
6:AZ:164:ALA:HB1	6:AZ:168:GLU:HG3	1.66	0.76
7:Aa:286:ALA:HB1	7:Aa:287:ASN:HA	1.68	0.76
27:AO:199:LEU:CD2	31:BS:176:LYS:CA	2.43	0.76
30:AR:26:ILE:HD13	28:BP:176:ASP:O	1.85	0.76
32:AT:178:TYR:CG	27:BO:139:GLU:OE2	2.38	0.76
12:Bf:278:VAL:O	12:Bf:282:PHE:HB2	1.85	0.76
16:BE:109:ARG:NH1	17:BF:121:CYS:SG	2.58	0.76
16:BE:345:ASN:ND2	17:BF:345:SER:H	1.83	0.76
3:AW:406:VAL:HG12	3:AW:413:ILE:HB	1.65	0.76
12:Af:498:LEU:HD12	12:Af:499:THR:HG23	1.65	0.76
14:AB:264:PRO:O	14:AB:267:VAL:N	2.19	0.76
18:AC:263:SER:O	18:AC:267:SER:CB	2.34	0.76
27:AO:26:VAL:HG21	31:BS:184:GLU:C	2.10	0.76
7:Ba:286:ALA:HB1	7:Ba:287:ASN:HA	1.68	0.76
14:BB:264:PRO:O	14:BB:267:VAL:N	2.19	0.76
31:BS:4:PRO:HB2	32:BT:100:ARG:HH21	1.50	0.76
27:AO:26:VAL:CB	31:BS:185:ARG:HA	2.15	0.76
7:Ba:70:ARG:NH1	7:Ba:70:ARG:O	2.19	0.76
16:BE:88:ASP:HB2	16:BE:91:LYS:HE3	1.68	0.76
17:BF:295:ARG:NH2	17:BF:300:LYS:O	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:707:LEU:O	12:Af:711:SER:CB	2.32	0.76
13:AA:355:PHE:O	13:AA:359:ALA:HB2	1.84	0.76
17:AF:204:LEU:HD12	17:AF:205:PRO:HD3	1.68	0.76
18:AC:325:ARG:O	18:AC:329:LEU:CB	2.34	0.76
6:BZ:164:ALA:HB1	6:BZ:168:GLU:HG3	1.66	0.76
9:Bc:154:LYS:CE	15:BD:81:ARG:NH2	2.48	0.76
12:Bf:278:VAL:O	12:Bf:282:PHE:CB	2.33	0.76
18:BC:263:SER:O	18:BC:267:SER:CB	2.34	0.76
20:AH:39:LYS:HE2	20:AH:144:PRO:HG2	1.67	0.76
30:AR:134:TYR:CD1	29:BQ:137:PHE:HB3	2.21	0.76
2:BV:67:LEU:HD21	2:BV:205:LEU:HD23	1.68	0.76
2:AV:228:ARG:HH21	2:AV:257:ASN:HB3	1.48	0.75
26:AN:134:TYR:OH	32:BT:33:LEU:CD2	2.32	0.75
18:BC:325:ARG:O	18:BC:329:LEU:CB	2.34	0.75
15:AD:81:ARG:NE	15:AD:82:ILE:HD11	2.01	0.75
17:BF:275:ALA:HB1	17:BF:326:VAL:HG11	1.68	0.75
18:BC:70:GLY:O	18:BC:118:ASN:CG	2.29	0.75
18:BC:86:LEU:HD23	18:BC:96:VAL:HB	1.68	0.75
23:AK:48:LEU:HB3	23:AK:218:ALA:HB3	1.66	0.75
32:AT:33:LEU:CD2	26:BN:134:TYR:OH	2.33	0.75
17:BF:204:LEU:HD12	17:BF:205:PRO:HD3	1.68	0.75
3:AW:257:GLN:HE22	3:AW:262:LYS:HD2	1.51	0.75
4:AX:420:LYS:O	6:AZ:283:ARG:NH2	2.19	0.75
17:AF:295:ARG:NH2	17:AF:300:LYS:O	2.19	0.75
32:AT:178:TYR:C	26:BN:29:ARG:NE	2.43	0.75
18:BC:201:ARG:O	18:BC:205:HIS:HB2	1.86	0.75
1:AU:474:ARG:HH21	1:AU:500:ASN:HB2	1.48	0.75
1:AU:607:VAL:O	1:AU:615:ARG:NH1	2.20	0.75
3:AW:44:ILE:HB	3:AW:93:ARG:HD2	1.68	0.75
7:Aa:70:ARG:NH1	7:Aa:70:ARG:O	2.19	0.75
12:Af:455:VAL:HG12	12:Af:456:ARG:HG2	1.68	0.75
16:AE:88:ASP:HB2	16:AE:91:LYS:HE3	1.68	0.75
30:AR:136:TYR:CD1	29:BQ:169:LYS:HE3	2.14	0.75
3:BW:257:GLN:HE22	3:BW:262:LYS:HD2	1.51	0.75
3:BW:416:GLN:HB3	3:BW:417:ARG:HA	1.67	0.75
23:BK:100:TRP:O	30:BR:57:ARG:NH2	2.18	0.75
18:AC:86:LEU:HD23	18:AC:96:VAL:HB	1.68	0.75
27:AO:208:THR:OG1	31:BS:159:GLN:N	2.19	0.75
23:BK:48:LEU:HB3	23:BK:218:ALA:HB3	1.67	0.75
18:AC:70:GLY:O	18:AC:118:ASN:CG	2.29	0.75
29:AQ:4:LEU:HD22	29:AQ:18:ASP:H	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AD:201:GLY:HA3	15:AD:327:LEU:HA	1.67	0.75
18:AC:66:LEU:HG	18:AC:70:GLY:CA	2.15	0.75
28:AP:147:TYR:HB3	31:BS:144:MET:CE	2.00	0.75
12:Bf:718:ASP:HB3	12:Bf:721:VAL:HG22	1.69	0.75
18:AC:201:ARG:O	18:AC:205:HIS:HB2	1.86	0.75
14:BB:100:ASP:HB3	14:BB:103:ARG:HH12	1.50	0.75
13:AA:92:PRO:C	13:AA:93:LEU:HD12	2.12	0.74
18:AC:18:SER:HA	18:AC:21:ARG:HB2	1.69	0.74
27:AO:167:LEU:HD13	31:BS:33:PHE:HD1	1.52	0.74
17:AF:181:PRO:HG3	17:AF:238:ARG:HG2	1.69	0.74
13:AA:89:SER:O	13:AA:92:PRO:HD2	1.87	0.74
28:AP:147:TYR:HD1	31:BS:185:ARG:CZ	1.62	0.74
17:BF:181:PRO:HG3	17:BF:238:ARG:HG2	1.69	0.74
25:BM:192:GLU:HA	25:BM:195:LYS:HE3	1.69	0.74
4:AX:195:THR:OG1	18:AC:388:ALA:HB2	1.87	0.74
4:BX:195:THR:OG1	18:BC:388:ALA:HB2	1.87	0.74
13:BA:89:SER:O	13:BA:92:PRO:HD2	1.87	0.74
16:BE:50:LEU:CD1	17:BF:138:GLY:CA	2.65	0.74
23:BK:228:MET:HG3	23:BK:229:PHE:H	1.52	0.74
16:AE:50:LEU:CD1	17:AF:138:GLY:CA	2.65	0.74
29:AQ:137:PHE:HB3	30:BR:134:TYR:CD1	2.22	0.74
1:BU:607:VAL:O	1:BU:615:ARG:NH1	2.20	0.74
4:BX:420:LYS:O	6:BZ:283:ARG:NH2	2.19	0.74
6:BZ:261:TYR:O	6:BZ:265:LEU:HD12	1.86	0.74
2:AV:67:LEU:HD21	2:AV:205:LEU:HD23	1.68	0.74
23:AK:45:GLY:HA3	23:AK:221:GLN:HG3	1.69	0.74
31:AS:159:GLN:HE21	27:BO:209:THR:CA	1.99	0.74
13:BA:92:PRO:C	13:BA:93:LEU:HD12	2.12	0.74
13:BA:335:GLY:HA2	17:BF:394:ALA:HB1	1.70	0.74
7:Aa:14:SER:OG	7:Aa:18:GLN:HG2	1.88	0.74
18:AC:325:ARG:O	18:AC:329:LEU:HB2	1.87	0.74
28:AP:144:GLU:CG	31:BS:143:ALA:HB3	2.16	0.74
30:AR:141:ARG:HH22	29:BQ:165:GLU:CB	1.95	0.74
21:BI:145:PHE:HZ	21:BI:218:ARG:HB2	1.51	0.74
29:BQ:4:LEU:HD22	29:BQ:18:ASP:H	1.52	0.74
3:AW:173:THR:HG23	3:AW:182:ARG:HH11	1.53	0.74
12:Af:680:ARG:NE	13:AA:74:PRO:HG2	1.95	0.74
15:AD:136:SER:HB3	18:AC:67:GLN:OE1	1.88	0.74
30:AR:26:ILE:HD12	28:BP:177:ARG:N	1.84	0.74
31:AS:148:LEU:HD22	28:BP:152:SER:CB	2.17	0.74
5:BY:268:TYR:HB2	5:BY:322:ALA:HB1	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bc:243:SER:HB3	9:Bc:244:VAL:HB	1.70	0.74
15:BD:136:SER:HB3	18:BC:67:GLN:OE1	1.88	0.74
3:AW:186:ILE:O	3:AW:189:GLN:NE2	2.21	0.74
5:AY:268:TYR:HB2	5:AY:322:ALA:HB1	1.70	0.74
13:AA:335:GLY:HA2	17:AF:394:ALA:HB1	1.70	0.74
26:AN:138:TYR:HD1	26:BN:138:TYR:HA	1.52	0.74
3:BW:340:VAL:HG13	3:BW:350:ARG:HD2	1.70	0.74
5:BY:89:GLU:HA	5:BY:92:GLU:HG2	1.70	0.74
9:Bc:168:MET:CA	9:Bc:172:HIS:HE1	1.97	0.74
32:AT:179:ARG:N	26:BN:29:ARG:HH21	1.86	0.73
3:BW:173:THR:HG23	3:BW:182:ARG:HH11	1.53	0.73
9:Bc:151:VAL:HG13	9:Bc:152:LYS:H	1.53	0.73
12:Bf:455:VAL:HG12	12:Bf:456:ARG:HG2	1.68	0.73
23:AK:228:MET:HG3	23:AK:229:PHE:H	1.52	0.73
9:Bc:46:ARG:O	16:BE:85:ARG:NH1	2.20	0.73
12:Bf:589:SER:O	12:Bf:593:THR:OG1	2.05	0.73
13:BA:425:ALA:HA	14:BB:339:PRO:HB3	1.70	0.73
14:BB:174:MET:HA	14:BB:248:LEU:HD13	1.70	0.73
3:AW:414:ASN:ND2	3:AW:416:GLN:O	2.21	0.73
5:AY:89:GLU:HA	5:AY:92:GLU:HG2	1.70	0.73
10:Ad:103:LEU:HD11	10:Ad:115:PHE:HD1	1.53	0.73
13:AA:425:ALA:HA	14:AB:339:PRO:HB3	1.70	0.73
28:AP:177:ARG:CG	30:BR:26:ILE:HB	2.06	0.73
31:AS:157:ASN:O	28:BP:169:GLN:OE1	2.07	0.73
3:BW:90:LEU:HD11	3:BW:135:LYS:HD3	1.71	0.73
17:BF:384:LEU:HA	17:BF:387:CYS:HB2	1.71	0.73
18:BC:325:ARG:O	18:BC:329:LEU:HB2	1.87	0.73
6:AZ:37:GLY:HA2	6:AZ:56:VAL:HG12	1.70	0.73
12:Af:478:ARG:NH1	12:Af:507:ASP:OD2	2.15	0.73
12:Af:589:SER:O	12:Af:593:THR:OG1	2.05	0.73
14:AB:411:ARG:NH2	14:AB:413:LYS:O	2.21	0.73
21:AI:145:PHE:HZ	21:AI:218:ARG:HB2	1.51	0.73
3:BW:44:ILE:HB	3:BW:93:ARG:HD2	1.68	0.73
10:Bd:103:LEU:HD11	10:Bd:115:PHE:HD1	1.53	0.73
23:BK:45:GLY:HA3	23:BK:221:GLN:HG3	1.69	0.73
3:AW:373:ILE:HG23	3:AW:413:ILE:HG13	1.71	0.73
15:AD:274:ARG:O	15:AD:283:ARG:NH2	2.22	0.73
18:AC:69:GLN:CD	18:AC:118:ASN:HB2	2.13	0.73
1:BU:147:TYR:OH	1:BU:170:SER:O	2.06	0.73
6:BZ:37:GLY:HA2	6:BZ:56:VAL:HG12	1.70	0.73
14:BB:411:ARG:NH2	14:BB:413:LYS:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:263:SER:O	18:AC:267:SER:HB2	1.88	0.73
7:Ba:123:LEU:HD21	7:Ba:161:LYS:HG3	1.71	0.73
18:BC:69:GLN:CD	18:BC:118:ASN:HB2	2.13	0.73
21:BI:119:GLN:NE2	22:BJ:79:ASP:OD1	2.22	0.73
3:AW:90:LEU:HD11	3:AW:135:LYS:HD3	1.71	0.73
17:AF:384:LEU:HA	17:AF:387:CYS:HB2	1.71	0.73
3:BW:186:ILE:O	3:BW:189:GLN:NE2	2.21	0.73
13:BA:103:ASN:O	17:BF:173:LYS:NZ	2.22	0.73
1:AU:147:TYR:OH	1:AU:170:SER:O	2.06	0.73
26:AN:40:ARG:NH1	26:AN:180:ALA:O	2.22	0.73
28:AP:177:ARG:HG3	30:BR:26:ILE:HB	1.69	0.73
3:BW:414:ASN:ND2	3:BW:416:GLN:O	2.21	0.73
15:BD:274:ARG:O	15:BD:283:ARG:NH2	2.21	0.73
7:Aa:123:LEU:HD21	7:Aa:161:LYS:HG3	1.71	0.72
9:Ac:46:ARG:O	16:AE:85:ARG:NH1	2.20	0.72
12:Af:718:ASP:HB3	12:Af:721:VAL:HG22	1.69	0.72
26:AN:179:ILE:HG12	26:AN:184:VAL:HG22	1.71	0.72
27:AO:207:GLY:O	31:BS:159:GLN:HG2	1.88	0.72
18:BC:214:VAL:HG12	18:BC:249:ASP:H	1.53	0.72
15:AD:323:ARG:HD2	18:AC:142:LYS:HA	1.71	0.72
30:AR:26:ILE:C	28:BP:177:ARG:HD2	2.09	0.72
6:AZ:261:TYR:O	6:AZ:265:LEU:HD12	1.86	0.72
9:Ac:151:VAL:HG13	9:Ac:152:LYS:H	1.53	0.72
14:AB:174:MET:HA	14:AB:248:LEU:HD13	1.70	0.72
15:AD:238:LYS:HA	16:AE:208:ILE:HG12	1.71	0.72
21:AI:119:GLN:NE2	22:AJ:79:ASP:OD1	2.22	0.72
25:AM:192:GLU:HA	25:AM:195:LYS:HE3	1.69	0.72
5:AY:192:ARG:NH1	11:Ae:42:ASN:OD1	2.23	0.72
8:Ab:54:LEU:HD13	8:Ab:84:ILE:HG13	1.72	0.72
10:Ad:109:GLN:O	10:Ad:111:ARG:NH2	2.23	0.72
12:Af:835:GLU:HB3	12:Af:850:VAL:HG22	1.71	0.72
21:AI:17:ARG:HH12	21:AI:19:TYR:HD1	1.38	0.72
26:AN:29:ARG:NE	32:BT:178:TYR:C	2.45	0.72
30:AR:140:ASP:O	29:BQ:166:GLU:OE2	2.08	0.72
9:Bc:154:LYS:HE3	15:BD:81:ARG:NH2	2.03	0.72
18:BC:18:SER:HA	18:BC:21:ARG:HB2	1.69	0.72
19:BG:148:GLY:O	19:BG:150:GLN:NE2	2.22	0.72
13:AA:218:PRO:HD3	13:AA:428:ARG:HE	1.54	0.72
19:AG:148:GLY:O	19:AG:150:GLN:NE2	2.22	0.72
26:BN:40:ARG:NH1	26:BN:180:ALA:O	2.22	0.72
3:AW:340:VAL:HG13	3:AW:350:ARG:HD2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:199:LEU:HB2	31:BS:177:ASP:CB	1.94	0.72
31:AS:159:GLN:HG2	27:BO:207:GLY:O	1.88	0.72
12:Bf:680:ARG:CD	13:BA:74:PRO:HG3	2.20	0.72
13:BA:218:PRO:HD3	13:BA:428:ARG:HE	1.54	0.72
5:AY:381:GLN:HB3	5:AY:385:ARG:HH12	1.55	0.72
22:AJ:120:GLN:OE1	23:AK:134:SER:N	2.23	0.72
1:AU:842:LYS:HA	1:AU:843:GLU:HB3	1.71	0.72
13:AA:103:ASN:O	17:AF:173:LYS:NZ	2.22	0.72
28:AP:144:GLU:HG2	31:BS:144:MET:HB2	1.72	0.72
28:AP:152:SER:CB	31:BS:148:LEU:HD22	2.20	0.72
30:AR:26:ILE:HB	28:BP:177:ARG:CG	2.04	0.72
3:BW:373:ILE:HG23	3:BW:413:ILE:HG13	1.71	0.72
8:Bb:54:LEU:HD13	8:Bb:84:ILE:HG13	1.72	0.72
12:Bf:382:ASN:HA	12:Bf:413:SER:HB3	1.71	0.72
12:Bf:835:GLU:HB3	12:Bf:850:VAL:HG22	1.71	0.72
10:Ad:147:SER:HG	10:Ad:151:VAL:H	1.35	0.72
23:AK:143:PHE:HB2	23:AK:154:PHE:HB2	1.72	0.72
27:AO:26:VAL:CB	31:BS:185:ARG:HD3	2.13	0.72
27:AO:209:THR:CA	31:BS:159:GLN:HE21	2.03	0.72
30:BR:196:HIS:O	30:BR:200:SER:OG	2.08	0.72
9:Ac:168:MET:CA	9:Ac:172:HIS:HE1	1.97	0.71
12:Bf:342:PRO:HG3	12:Bf:640:LYS:HE2	1.72	0.71
18:BC:263:SER:O	18:BC:267:SER:HB2	1.88	0.71
28:BP:107:PRO:HG2	28:BP:124:LEU:HB2	1.72	0.71
6:AZ:233:VAL:HA	6:AZ:236:LEU:HD13	1.72	0.71
12:Af:342:PRO:HG3	12:Af:640:LYS:HE2	1.72	0.71
12:Af:453:SER:OG	12:Af:480:GLY:O	2.08	0.71
15:AD:326:ARG:HH21	18:AC:141:GLU:HB3	1.55	0.71
17:AF:381:TYR:O	17:AF:385:ALA:CB	2.38	0.71
5:BY:381:GLN:HB3	5:BY:385:ARG:HH12	1.55	0.71
10:Bd:109:GLN:O	10:Bd:111:ARG:NH2	2.23	0.71
15:BD:238:LYS:HA	16:BE:208:ILE:HG12	1.71	0.71
25:BM:15:SER:OG	25:BM:17:ASP:OD1	2.07	0.71
26:BN:179:ILE:HG12	26:BN:184:VAL:HG22	1.72	0.71
4:AX:409:LYS:HZ2	9:Ac:264:LYS:HD3	1.53	0.71
9:Ac:243:SER:HB3	9:Ac:244:VAL:HB	1.70	0.71
30:AR:26:ILE:O	28:BP:177:ARG:HG3	1.89	0.71
31:AS:174:LEU:HD23	27:BO:202:TYR:CZ	2.24	0.71
7:Ba:14:SER:OG	7:Ba:18:GLN:HG2	1.88	0.71
3:AW:90:LEU:HD22	15:AD:390:ASN:O	1.90	0.71
9:Ac:154:LYS:HE3	15:AD:81:ARG:NH2	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:304:ASN:ND2	17:AF:287:GLU:OE1	2.24	0.71
18:AC:214:VAL:HG12	18:AC:249:ASP:H	1.53	0.71
5:BY:192:ARG:NH1	11:Be:42:ASN:OD1	2.23	0.71
13:BA:429:TYR:O	13:BA:433:ASN:N	2.24	0.71
17:BF:381:TYR:O	17:BF:385:ALA:CB	2.38	0.71
1:AU:611:ASN:HB3	1:AU:614:VAL:HG12	1.72	0.71
25:AM:67:PHE:HB2	25:AM:75:MET:HB2	1.72	0.71
28:AP:147:TYR:HE1	31:BS:185:ARG:NH1	1.66	0.71
31:AS:33:PHE:HD1	27:BO:167:LEU:HD13	1.53	0.71
31:AS:159:GLN:O	27:BO:208:THR:OG1	2.07	0.71
1:BU:611:ASN:HB3	1:BU:614:VAL:HG12	1.72	0.71
12:Bf:211:ILE:O	12:Bf:215:ASP:HB2	1.90	0.71
22:BJ:120:GLN:OE1	23:BK:134:SER:N	2.23	0.71
2:AV:379:LEU:HD13	2:AV:395:ILE:HG12	1.73	0.71
12:Af:382:ASN:HA	12:Af:413:SER:HB3	1.71	0.71
15:AD:303:VAL:HA	15:AD:304:ASN:HB2	1.73	0.71
27:AO:199:LEU:CG	31:BS:176:LYS:CB	2.59	0.71
1:BU:447:GLY:HA3	1:BU:480:GLY:HA2	1.73	0.71
3:AW:123:ARG:HH12	3:AW:127:THR:HB	1.56	0.71
12:Af:680:ARG:CD	13:AA:74:PRO:HG3	2.20	0.71
13:AA:429:TYR:O	13:AA:433:ASN:N	2.24	0.71
27:AO:195:LYS:HE3	31:BS:180:ILE:HG22	0.73	0.71
29:AQ:57:ALA:O	29:AQ:61:GLN:HB3	1.91	0.71
31:AS:177:ASP:HB2	27:BO:199:LEU:HB2	1.72	0.71
1:BU:842:LYS:HA	1:BU:843:GLU:HB3	1.71	0.71
7:Ba:340:VAL:HG12	7:Ba:341:LEU:H	1.56	0.71
12:Bf:453:SER:OG	12:Bf:480:GLY:O	2.08	0.71
12:Bf:473:ASN:HA	12:Bf:478:ARG:HD2	1.71	0.71
21:BI:35:LEU:HA	21:BI:162:THR:HG21	1.73	0.71
4:AX:198:ASN:OD1	18:AC:392:GLN:CG	2.39	0.71
6:AZ:7:GLN:OE1	6:AZ:46:LYS:NZ	2.24	0.71
12:Af:414:LEU:HD23	12:Af:417:ILE:HD11	1.73	0.71
19:AG:203:SER:O	19:AG:207:SER:N	2.23	0.71
29:AQ:171:PHE:HA	29:BQ:25:ILE:O	1.91	0.71
31:AS:144:MET:CE	28:BP:147:TYR:HB3	1.96	0.71
6:BZ:233:VAL:HA	6:BZ:236:LEU:HD13	1.72	0.71
9:Bc:118:PHE:HD1	16:BE:103:THR:CG2	1.89	0.71
15:BD:259:PRO:HA	15:BD:304:ASN:HD22	1.56	0.71
7:Aa:340:VAL:HG12	7:Aa:341:LEU:H	1.56	0.71
12:Af:612:LEU:O	12:Af:616:CYS:CB	2.39	0.71
26:AN:134:TYR:CD1	26:BN:133:SER:O	2.43	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AP:107:PRO:HG2	28:AP:124:LEU:HB2	1.72	0.71
12:Bf:326:LEU:O	12:Bf:330:PHE:HB2	1.91	0.71
13:BA:304:ASN:ND2	17:BF:287:GLU:OE1	2.24	0.71
17:BF:293:THR:HG23	17:BF:337:ILE:HG21	1.73	0.71
12:Af:326:LEU:O	12:Af:330:PHE:HB2	1.91	0.71
27:AO:199:LEU:HB2	31:BS:177:ASP:HB2	1.71	0.71
3:BW:136:ILE:CD1	15:BD:392:TYR:HD1	2.03	0.71
12:Bf:414:LEU:HD23	12:Bf:417:ILE:HD11	1.73	0.71
15:BD:148:ASP:HB3	15:BD:149:SER:C	2.16	0.71
4:AX:122:ARG:NH2	20:AH:185:GLU:CG	2.55	0.70
12:Af:256:PHE:CD1	12:Af:298:LEU:HA	2.26	0.70
23:AK:31:ILE:HD13	23:AK:140:ALA:HB2	1.72	0.70
9:Bc:154:LYS:HZ1	15:BD:81:ARG:NH1	1.87	0.70
5:AY:344:HIS:HB3	5:AY:358:ARG:HG2	1.73	0.70
12:Af:211:ILE:O	12:Af:215:ASP:HB2	1.90	0.70
23:AK:85:ALA:HB2	23:AK:139:VAL:HG21	1.73	0.70
2:BV:212:TYR:OH	2:BV:287:ARG:NH2	2.24	0.70
7:Ba:71:VAL:HA	8:Bb:17:ARG:HH12	1.56	0.70
20:BH:123:GLN:O	21:BI:127:LYS:NZ	2.25	0.70
22:BJ:119:THR:HG22	22:BJ:126:PRO:HB3	1.73	0.70
23:BK:143:PHE:HB2	23:BK:154:PHE:HB2	1.72	0.70
1:AU:518:LEU:HD23	1:AU:554:LEU:HD11	1.73	0.70
14:AB:313:LEU:HD11	14:AB:344:PRO:HG2	1.74	0.70
15:AD:148:ASP:HB3	15:AD:149:SER:C	2.16	0.70
27:AO:139:GLU:OE2	32:BT:178:TYR:CE1	2.44	0.70
28:AP:144:GLU:O	31:BS:144:MET:CB	2.30	0.70
28:AP:149:MET:SD	31:BS:148:LEU:CB	2.70	0.70
6:BZ:222:ILE:HG23	6:BZ:223:ASN:CB	2.21	0.70
12:Bf:646:MET:HB3	12:Bf:659:LEU:HD22	1.74	0.70
12:Af:687:ARG:HH12	13:AA:78:TRP:CG	2.10	0.70
16:AE:181:THR:O	16:AE:185:ARG:CB	2.34	0.70
27:AO:199:LEU:C	31:BS:177:ASP:OD2	2.13	0.70
2:BV:379:LEU:HD13	2:BV:395:ILE:HG12	1.73	0.70
5:BY:344:HIS:HB3	5:BY:358:ARG:HG2	1.73	0.70
19:BG:203:SER:O	19:BG:207:SER:N	2.23	0.70
4:AX:87:ARG:HD2	20:AH:231:ALA:CB	2.20	0.70
12:Af:551:LYS:O	12:Af:592:ASN:ND2	2.25	0.70
29:AQ:170:ARG:NH1	29:BQ:22:ALA:CA	2.53	0.70
1:BU:518:LEU:HD23	1:BU:554:LEU:HD11	1.73	0.70
1:BU:770:TRP:CG	9:Bc:179:SER:HG	2.09	0.70
3:BW:90:LEU:HD22	15:BD:390:ASN:O	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BZ:7:GLN:OE1	6:BZ:46:LYS:NZ	2.24	0.70
23:BK:31:ILE:HD13	23:BK:140:ALA:HB2	1.72	0.70
29:BQ:57:ALA:O	29:BQ:61:GLN:HB3	1.91	0.70
9:Ac:188:SER:HA	9:Ac:189:ILE:HG22	1.74	0.70
13:AA:388:VAL:HG13	13:AA:413:VAL:HG22	1.74	0.70
14:BB:425:ASN:O	14:BB:429:LYS:HB2	1.92	0.70
16:BE:47:LEU:HD13	17:BF:80:ILE:HG12	1.72	0.70
10:Ad:209:TYR:HB3	10:Ad:213:ARG:HE	1.57	0.70
12:Af:473:ASN:HA	12:Af:478:ARG:HD2	1.71	0.70
32:AT:178:TYR:O	26:BN:29:ARG:NE	2.24	0.70
12:Bf:680:ARG:NE	13:BA:74:PRO:HG2	1.95	0.70
13:BA:90:GLU:HG2	13:BA:94:GLN:NE2	2.03	0.70
15:AD:259:PRO:HA	15:AD:304:ASN:HD22	1.56	0.70
15:AD:389:GLU:HB2	15:AD:391:ARG:HB2	1.73	0.70
29:AQ:169:LYS:HE3	30:BR:136:TYR:CD1	2.11	0.70
32:AT:33:LEU:HD12	26:BN:166:ARG:HG3	1.73	0.70
12:Bf:687:ARG:HH12	13:BA:78:TRP:CG	2.10	0.70
15:BD:303:VAL:HA	15:BD:304:ASN:HB2	1.72	0.70
21:BI:17:ARG:HH12	21:BI:19:TYR:HD1	1.38	0.70
15:AD:293:LEU:HG	15:AD:326:ARG:HD3	1.74	0.70
22:AJ:119:THR:HG22	22:AJ:126:PRO:HB3	1.73	0.70
23:AK:16:SER:HB3	23:AK:20:ARG:H	1.57	0.70
28:AP:177:ARG:HG3	30:BR:26:ILE:O	1.91	0.70
4:BX:198:ASN:OD1	18:BC:392:GLN:CG	2.39	0.70
9:Bc:188:SER:HA	9:Bc:189:ILE:HG22	1.74	0.70
12:Bf:612:LEU:O	12:Bf:616:CYS:CB	2.39	0.70
1:AU:447:GLY:HA3	1:AU:480:GLY:HA2	1.73	0.70
4:AX:255:LEU:HD12	4:AX:287:LEU:HD13	1.74	0.70
7:Aa:50:PHE:O	7:Aa:86:GLN:NE2	2.25	0.70
27:AO:202:TYR:CZ	31:BS:174:LEU:HD23	2.27	0.70
1:BU:356:THR:HG21	1:BU:731:ILE:HD13	1.74	0.70
12:Bf:256:PHE:CD1	12:Bf:298:LEU:HA	2.26	0.70
2:AV:212:TYR:OH	2:AV:287:ARG:NH2	2.24	0.69
9:Ac:116:PRO:HA	9:Ac:146:ASP:OD1	1.92	0.69
14:AB:177:GLU:H	14:AB:178:LYS:HA	1.56	0.69
18:AC:99:VAL:HA	18:AC:100:ASP:HB2	1.72	0.69
10:Bd:147:SER:HG	10:Bd:151:VAL:H	1.38	0.69
15:BD:323:ARG:HD2	18:BC:142:LYS:HA	1.71	0.69
25:BM:67:PHE:HB2	25:BM:75:MET:HB2	1.72	0.69
1:AU:155:LEU:O	1:AU:158:ARG:NH1	2.25	0.69
3:AW:136:ILE:CD1	15:AD:392:TYR:HD1	2.03	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aa:12:GLN:O	7:Aa:12:GLN:HG2	1.92	0.69
16:AE:47:LEU:HD13	17:AF:80:ILE:HG12	1.72	0.69
26:AN:137:GLY:O	26:BN:162:LEU:HD13	1.93	0.69
28:AP:176:ASP:C	30:BR:26:ILE:HG21	2.17	0.69
30:AR:196:HIS:O	30:AR:200:SER:OG	2.08	0.69
4:BX:194:ARG:HD2	4:BX:210:LEU:HD21	1.74	0.69
7:Ba:12:GLN:HG2	7:Ba:12:GLN:O	1.92	0.69
15:BD:293:LEU:HG	15:BD:326:ARG:HD3	1.74	0.69
18:BC:71:SER:HA	18:BC:118:ASN:HB3	1.72	0.69
18:BC:99:VAL:HA	18:BC:100:ASP:HB2	1.72	0.69
23:BK:38:ILE:HD11	23:BK:177:ALA:HB1	1.74	0.69
2:AV:94:VAL:HG22	2:AV:138:PRO:HD3	1.74	0.69
14:AB:425:ASN:O	14:AB:429:LYS:HB2	1.92	0.69
20:AH:123:GLN:HB2	21:AI:128:ARG:HH21	1.57	0.69
24:AL:69:HIS:ND1	24:AL:70:ILE:HG13	2.07	0.69
29:AQ:166:GLU:OE2	30:BR:140:ASP:O	2.09	0.69
31:AS:176:LYS:CA	27:BO:199:LEU:CD2	2.45	0.69
14:BB:313:LEU:HD11	14:BB:344:PRO:HG2	1.74	0.69
16:BE:86:GLN:NE2	16:BE:108:MET:O	2.25	0.69
2:AV:80:LYS:HB3	2:AV:81:GLN:C	2.17	0.69
4:AX:194:ARG:HD2	4:AX:210:LEU:HD21	1.74	0.69
21:AI:35:LEU:HA	21:AI:162:THR:HG21	1.73	0.69
31:AS:144:MET:HB2	28:BP:144:GLU:HG2	1.72	0.69
1:BU:649:ARG:HB3	1:BU:675:MET:HE1	1.74	0.69
2:BV:80:LYS:HB3	2:BV:81:GLN:C	2.17	0.69
4:BX:409:LYS:HZ2	9:Bc:264:LYS:HD3	1.57	0.69
9:Bc:116:PRO:HA	9:Bc:146:ASP:OD1	1.92	0.69
15:BD:326:ARG:HH21	18:BC:141:GLU:HB3	1.55	0.69
1:AU:356:THR:HG21	1:AU:731:ILE:HD13	1.74	0.69
30:AR:141:ARG:N	29:BQ:166:GLU:OE2	2.26	0.69
31:AS:144:MET:CB	28:BP:144:GLU:O	2.32	0.69
4:BX:87:ARG:HD2	20:BH:231:ALA:CB	2.20	0.69
14:BB:193:GLN:HG2	14:BB:237:LYS:HZ1	1.58	0.69
15:BD:389:GLU:HB2	15:BD:391:ARG:HB2	1.73	0.69
1:AU:522:GLY:O	1:AU:559:ARG:NH2	2.25	0.69
3:AW:409:LEU:HD21	4:AX:344:ARG:HG2	1.74	0.69
9:Ac:154:LYS:HZ1	15:AD:81:ARG:NH1	1.88	0.69
14:AB:304:GLU:HA	14:AB:307:ARG:HG2	1.74	0.69
19:AG:47:CYS:HB3	19:AG:221:THR:HG23	1.74	0.69
19:AG:80:MET:HE2	19:AG:87:SER:HA	1.74	0.69
31:AS:213:ASP:CB	27:BO:193:ASN:HD21	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:112:ILE:HD12	7:Ba:113:LEU:N	2.07	0.69
20:BH:231:ALA:HB3	20:BH:232:ALA:HB3	1.75	0.69
14:AB:387:LYS:HD2	14:AB:390:LEU:HD22	1.74	0.69
17:AF:293:THR:HG23	17:AF:337:ILE:HG21	1.73	0.69
26:AN:133:SER:O	26:BN:134:TYR:CD1	2.44	0.69
29:AQ:170:ARG:O	29:BQ:26:VAL:C	2.32	0.69
3:BW:123:ARG:HH12	3:BW:127:THR:HB	1.56	0.69
12:Af:646:MET:HB3	12:Af:659:LEU:HD22	1.74	0.69
13:AA:90:GLU:HG2	13:AA:94:GLN:NE2	2.03	0.69
13:AA:94:GLN:O	14:AB:131:HIS:NE2	2.26	0.69
18:AC:71:SER:HA	18:AC:118:ASN:HB3	1.72	0.69
26:AN:144:ARG:H	26:AN:147:MET:HE3	1.58	0.69
29:AQ:166:GLU:OE2	30:BR:141:ARG:N	2.25	0.69
3:BW:136:ILE:HG13	15:BD:392:TYR:HD1	1.53	0.69
9:Bc:209:LYS:HA	9:Bc:210:ASN:HB2	1.75	0.69
12:Bf:301:HIS:HA	12:Bf:304:PHE:HB3	1.75	0.69
12:Bf:592:ASN:O	12:Bf:596:ASP:HB2	1.93	0.69
13:BA:388:VAL:HG13	13:BA:413:VAL:HG22	1.74	0.69
14:BB:387:LYS:HD2	14:BB:390:LEU:HD22	1.74	0.69
20:BH:123:GLN:HB2	21:BI:128:ARG:HH21	1.57	0.69
24:BL:69:HIS:ND1	24:BL:70:ILE:HG13	2.07	0.69
27:BO:103:VAL:HG11	27:BO:180:LYS:HA	1.75	0.69
1:AU:649:ARG:HB3	1:AU:675:MET:HE1	1.74	0.69
31:AS:185:ARG:C	27:BO:26:VAL:CG2	2.42	0.69
2:BV:94:VAL:HG22	2:BV:138:PRO:HD3	1.74	0.69
9:Bc:250:GLU:O	9:Bc:253:LYS:HG2	1.92	0.69
10:Bd:209:TYR:HB3	10:Bd:213:ARG:HE	1.57	0.69
13:BA:292:ASP:HB3	13:BA:296:GLN:HG2	1.75	0.69
13:BA:393:GLY:HA3	14:BB:216:ILE:HG13	1.74	0.69
19:BG:47:CYS:HB3	19:BG:221:THR:HG23	1.74	0.69
7:Aa:112:ILE:HD12	7:Aa:113:LEU:N	2.07	0.69
29:AQ:166:GLU:CD	30:BR:140:ASP:HB3	2.17	0.69
13:BA:189:GLU:OE2	17:BF:409:ARG:NH2	2.26	0.69
17:BF:90:VAL:HG13	17:BF:150:LEU:HA	1.75	0.69
23:BK:85:ALA:HB2	23:BK:139:VAL:HG21	1.73	0.69
13:AA:189:GLU:OE2	17:AF:409:ARG:NH2	2.26	0.68
25:AM:92:ARG:NH2	32:AT:73:ASP:OD1	2.26	0.68
27:AO:103:VAL:HG11	27:AO:180:LYS:HA	1.75	0.68
27:AO:208:THR:OG1	31:BS:159:GLN:O	2.10	0.68
7:Ba:50:PHE:O	7:Ba:86:GLN:NE2	2.25	0.68
12:Bf:821:LEU:H	12:Bf:823:ALA:HA	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BB:177:GLU:H	14:BB:178:LYS:HA	1.57	0.68
14:BB:304:GLU:HA	14:BB:307:ARG:HG2	1.74	0.68
23:BK:16:SER:HB3	23:BK:20:ARG:H	1.57	0.68
1:AU:406:ALA:HA	1:AU:445:ALA:HB2	1.75	0.68
2:AV:466:ILE:HG23	2:AV:467:TYR:H	1.58	0.68
7:Aa:71:VAL:HA	8:Ab:17:ARG:HH12	1.56	0.68
9:Ac:250:GLU:O	9:Ac:253:LYS:HG2	1.92	0.68
12:Af:763:ARG:NH2	12:Af:766:GLN:HG3	2.09	0.68
13:AA:393:GLY:HA3	14:AB:216:ILE:HG13	1.74	0.68
22:AJ:108:THR:HG22	22:AJ:133:ILE:HD13	1.76	0.68
1:BU:522:GLY:O	1:BU:559:ARG:NH2	2.25	0.68
4:BX:122:ARG:NH2	20:BH:185:GLU:CG	2.54	0.68
6:AZ:142:GLU:OE2	6:AZ:153:LYS:NZ	2.27	0.68
6:AZ:222:ILE:HG23	6:AZ:223:ASN:CB	2.21	0.68
16:AE:173:TYR:CZ	16:AE:300:HIS:HB3	2.29	0.68
22:AJ:7:ILE:HG13	22:AJ:124:ARG:H	1.59	0.68
24:AL:82:ARG:O	24:AL:86:ASN:ND2	2.27	0.68
26:AN:134:TYR:CZ	32:BT:33:LEU:CD2	2.73	0.68
29:AQ:22:ALA:CA	29:BQ:170:ARG:NH1	2.55	0.68
4:BX:255:LEU:HD12	4:BX:287:LEU:HD13	1.74	0.68
13:BA:94:GLN:O	14:BB:131:HIS:NE2	2.26	0.68
13:BA:201:PHE:O	13:BA:205:GLY:N	2.26	0.68
19:BG:80:MET:HE2	19:BG:87:SER:HA	1.74	0.68
9:Ac:121:TRP:CD1	9:Ac:192:LEU:HD11	2.28	0.68
17:AF:87:PRO:CA	17:AF:154:ASN:OD1	2.42	0.68
19:AG:71:LYS:O	19:AG:95:ARG:NH2	2.26	0.68
26:AN:29:ARG:NE	32:BT:178:TYR:O	2.25	0.68
26:AN:134:TYR:O	26:BN:134:TYR:O	2.10	0.68
29:AQ:26:VAL:C	29:BQ:170:ARG:O	2.33	0.68
31:AS:144:MET:SD	28:BP:147:TYR:CB	2.74	0.68
3:BW:169:LEU:O	3:BW:182:ARG:NH1	2.27	0.68
18:BC:271:ARG:HA	18:BC:274:LEU:HB2	1.73	0.68
19:BG:71:LYS:O	19:BG:95:ARG:NH2	2.26	0.68
25:BM:92:ARG:NH2	32:BT:73:ASP:OD1	2.26	0.68
9:Ac:209:LYS:HA	9:Ac:210:ASN:HB2	1.75	0.68
12:Af:655:LEU:O	12:Af:659:LEU:CB	2.41	0.68
13:AA:415:LYS:O	13:AA:419:SER:OG	2.11	0.68
16:AE:86:GLN:NE2	16:AE:108:MET:O	2.25	0.68
20:AH:43:GLY:HA2	20:AH:144:PRO:HG3	1.76	0.68
2:BV:466:ILE:HG23	2:BV:467:TYR:H	1.58	0.68
9:Bc:121:TRP:CD1	9:Bc:192:LEU:HD11	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BF:304:ARG:O	17:BF:308:ARG:HB2	1.93	0.68
5:AY:356:THR:HA	5:AY:357:ASN:CG	2.19	0.68
13:AA:292:ASP:HB3	13:AA:296:GLN:HG2	1.75	0.68
15:AD:384:MET:HA	15:AD:387:VAL:HG12	1.76	0.68
17:AF:304:ARG:O	17:AF:308:ARG:HB2	1.93	0.68
28:AP:169:GLN:OE1	31:BS:157:ASN:O	2.10	0.68
17:BF:339:ASP:HB3	17:BF:342:LEU:HG	1.76	0.68
12:Af:592:ASN:O	12:Af:596:ASP:HB2	1.93	0.68
13:AA:375:ARG:HH12	23:AK:205:VAL:HB	1.59	0.68
26:AN:138:TYR:CB	26:BN:138:TYR:N	2.49	0.68
26:AN:166:ARG:HG3	32:BT:33:LEU:HD12	1.76	0.68
28:AP:147:TYR:CB	31:BS:144:MET:SD	2.76	0.68
6:BZ:105:ASP:HA	6:BZ:108:ILE:HD13	1.74	0.68
7:Aa:270:ARG:HH11	7:Aa:313:LYS:HB3	1.59	0.68
20:AH:123:GLN:O	21:AI:127:LYS:NZ	2.25	0.68
23:AK:38:ILE:HD11	23:AK:177:ALA:HB1	1.74	0.68
31:AS:180:ILE:C	27:BO:195:LYS:CE	2.63	0.68
1:BU:341:PHE:HB2	1:BU:881:PRO:HD2	1.74	0.68
14:BB:393:ALA:HA	14:BB:396:LYS:HB3	1.76	0.68
16:BE:180:LYS:HG3	16:BE:181:THR:H	1.59	0.68
3:AW:384:LEU:HD13	3:AW:388:GLU:HB3	1.76	0.68
12:Af:821:LEU:H	12:Af:823:ALA:HA	1.58	0.68
13:AA:201:PHE:O	13:AA:205:GLY:N	2.26	0.68
28:AP:177:ARG:HD2	30:BR:26:ILE:C	2.11	0.68
31:AS:180:ILE:HG22	27:BO:195:LYS:HE3	0.73	0.68
1:BU:155:LEU:O	1:BU:158:ARG:NH1	2.25	0.68
1:BU:607:VAL:HG12	15:BD:67:ASN:HD22	1.58	0.68
9:Bc:46:ARG:C	16:BE:85:ARG:NH2	2.52	0.68
10:Bd:214:GLY:N	10:Bd:215:TRP:HB3	2.09	0.68
16:BE:186:ALA:O	16:BE:190:GLN:CB	2.42	0.68
19:BG:30:LYS:NZ	25:BM:16:PRO:O	2.25	0.68
24:BL:7:ASP:O	24:BL:21:GLN:NE2	2.27	0.68
24:BL:82:ARG:O	24:BL:86:ASN:ND2	2.27	0.68
18:AC:298:ILE:O	18:AC:301:LEU:N	2.27	0.68
26:AN:134:TYR:CD1	26:BN:136:TYR:CD2	2.82	0.68
29:AQ:25:ILE:O	29:BQ:171:PHE:HA	1.94	0.68
29:AQ:162:LYS:HB3	30:BR:141:ARG:NE	2.09	0.68
32:AT:178:TYR:CE1	27:BO:139:GLU:OE2	2.46	0.68
23:BK:200:ILE:HA	23:BK:203:LYS:HZ3	1.59	0.68
2:AV:479:ARG:NH2	5:AY:374:ASP:OD1	2.27	0.67
3:BW:384:LEU:HD13	3:BW:388:GLU:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:655:LEU:O	12:Bf:659:LEU:CB	2.41	0.67
15:BD:384:MET:HA	15:BD:387:VAL:HG12	1.76	0.67
1:AU:607:VAL:HG12	15:AD:67:ASN:HD22	1.58	0.67
17:AF:339:ASP:HB3	17:AF:342:LEU:HG	1.76	0.67
27:AO:167:LEU:HB2	31:BS:33:PHE:CG	2.29	0.67
2:BV:479:ARG:NH2	5:BY:374:ASP:OD1	2.27	0.67
7:Ba:286:ALA:HA	7:Ba:288:HIS:HB2	1.76	0.67
13:BA:281:GLY:O	13:BA:326:THR:OG1	2.11	0.67
27:BO:46:ALA:HB3	27:BO:97:ALA:HB3	1.75	0.67
2:AV:400:HIS:ND1	10:Ad:144:MET:HB3	2.09	0.67
3:AW:169:LEU:O	3:AW:182:ARG:NH1	2.27	0.67
6:AZ:105:ASP:HA	6:AZ:108:ILE:HD13	1.74	0.67
16:AE:141:GLN:NE2	16:AE:300:HIS:O	2.27	0.67
16:AE:186:ALA:O	16:AE:190:GLN:CB	2.42	0.67
28:AP:58:THR:OG1	29:AQ:121:LEU:O	2.10	0.67
2:BV:400:HIS:ND1	10:Bd:144:MET:HB3	2.10	0.67
3:AW:136:ILE:HG13	15:AD:392:TYR:HD1	1.53	0.67
12:Af:774:GLY:HA2	12:Af:778:LEU:H	1.60	0.67
18:AC:271:ARG:HA	18:AC:274:LEU:HB2	1.74	0.67
20:AH:231:ALA:HB3	20:AH:232:ALA:HB3	1.75	0.67
24:AL:15:PRO:O	25:AM:28:LYS:NZ	2.25	0.67
31:AS:177:ASP:CB	27:BO:199:LEU:HB2	1.96	0.67
1:BU:885:MET:HB3	1:BU:888:GLN:HG3	1.76	0.67
12:Bf:763:ARG:NH2	12:Bf:766:GLN:HG3	2.09	0.67
15:BD:194:ILE:HD13	18:BC:371:LEU:HB2	1.76	0.67
16:BE:194:ASN:ND2	16:BE:225:HIS:O	2.25	0.67
21:BI:49:ARG:HH12	21:BI:64:LYS:H	1.42	0.67
6:AZ:43:TRP:HB3	6:AZ:90:ARG:HH21	1.60	0.67
9:Ac:46:ARG:C	16:AE:85:ARG:NH2	2.52	0.67
10:Ad:3:GLU:HB3	10:Ad:4:GLN:HA	1.76	0.67
17:AF:90:VAL:HG13	17:AF:150:LEU:HA	1.75	0.67
28:AP:177:ARG:N	30:BR:26:ILE:HD12	1.82	0.67
2:BV:282:ASN:O	2:BV:315:LYS:NZ	2.28	0.67
3:BW:331:GLY:HA2	3:BW:332:SER:HB3	1.77	0.67
6:BZ:43:TRP:HB3	6:BZ:90:ARG:HH21	1.60	0.67
16:BE:173:TYR:CZ	16:BE:300:HIS:HB3	2.28	0.67
22:BJ:108:THR:HG22	22:BJ:133:ILE:HD13	1.76	0.67
16:AE:194:ASN:ND2	16:AE:225:HIS:O	2.25	0.67
21:AI:49:ARG:HH12	21:AI:64:LYS:H	1.43	0.67
32:AT:33:LEU:CD2	26:BN:134:TYR:CZ	2.72	0.67
32:AT:33:LEU:HB2	26:BN:134:TYR:OH	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BW:409:LEU:HD21	4:BX:344:ARG:HG2	1.74	0.67
5:BY:356:THR:HA	5:BY:357:ASN:CG	2.19	0.67
9:Bc:46:ARG:CG	16:BE:85:ARG:HH22	2.05	0.67
13:BA:309:PHE:HZ	17:BF:235:LEU:HA	1.60	0.67
16:BE:141:GLN:NE2	16:BE:300:HIS:O	2.27	0.67
16:BE:235:ILE:HG22	16:BE:279:THR:HB	1.76	0.67
17:BF:87:PRO:CA	17:BF:154:ASN:OD1	2.42	0.67
1:AU:109:THR:OG1	1:AU:156:GLU:O	2.11	0.67
1:AU:341:PHE:HB2	1:AU:881:PRO:HD2	1.74	0.67
1:AU:885:MET:HB3	1:AU:888:GLN:HG3	1.76	0.67
3:AW:331:GLY:HA2	3:AW:332:SER:HB3	1.77	0.67
7:Aa:286:ALA:HA	7:Aa:288:HIS:HB2	1.76	0.67
10:Ad:203:PRO:HG2	10:Ad:206:MET:HG2	1.76	0.67
32:AT:33:LEU:HD22	26:BN:134:TYR:HH	1.60	0.67
1:BU:406:ALA:HA	1:BU:445:ALA:HB2	1.75	0.67
10:Bd:203:PRO:HG2	10:Bd:206:MET:HG2	1.76	0.67
13:BA:170:PRO:HA	13:BA:229:VAL:HG12	1.76	0.67
18:BC:325:ARG:NH2	18:BC:353:GLY:O	2.26	0.67
26:BN:144:ARG:H	26:BN:147:MET:HE3	1.58	0.67
12:Af:349:TYR:CZ	12:Af:827:PRO:HB3	2.30	0.67
13:AA:281:GLY:O	13:AA:326:THR:OG1	2.11	0.67
21:AI:10:THR:HG22	22:AJ:125:ARG:HB2	1.76	0.67
27:AO:46:ALA:HB3	27:AO:97:ALA:HB3	1.75	0.67
12:Bf:313:GLU:HG2	12:Bf:316:ASP:HB2	1.77	0.67
15:BD:412:GLN:HG3	15:BD:414:HIS:H	1.59	0.67
16:BE:82:GLY:O	16:BE:106:THR:OG1	2.09	0.67
12:Af:301:HIS:HA	12:Af:304:PHE:HB3	1.75	0.67
26:AN:134:TYR:OH	32:BT:33:LEU:HB2	1.95	0.67
30:AR:162:GLN:NE2	29:BQ:144:ASP:C	2.53	0.67
2:BV:265:ASP:O	2:BV:269:LYS:NZ	2.28	0.67
10:Bd:3:GLU:HB3	10:Bd:4:GLN:HA	1.76	0.67
1:AU:199:ARG:O	1:AU:203:LYS:NZ	2.27	0.67
2:AV:265:ASP:O	2:AV:269:LYS:NZ	2.28	0.67
3:AW:48:LEU:HD12	3:AW:96:GLN:HE22	1.60	0.67
12:Af:313:GLU:HG2	12:Af:316:ASP:HB2	1.77	0.67
13:AA:309:PHE:HZ	17:AF:235:LEU:HA	1.60	0.67
14:AB:261:GLY:HA2	14:AB:262:ASP:HB3	1.77	0.67
17:AF:223:VAL:HG13	17:AF:329:ILE:HG23	1.77	0.67
30:AR:26:ILE:HG21	28:BP:176:ASP:C	2.17	0.67
30:AR:140:ASP:HB3	29:BQ:166:GLU:CD	2.18	0.67
31:AS:159:GLN:CA	27:BO:208:THR:OG1	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:174:LEU:HD23	27:BO:202:TYR:OH	1.93	0.67
2:BV:79:VAL:HG13	2:BV:80:LYS:H	1.60	0.67
2:BV:333:ILE:HD11	2:BV:360:TYR:HE2	1.60	0.67
4:BX:171:LEU:O	4:BX:213:GLN:NE2	2.28	0.67
17:BF:86:LEU:C	17:BF:154:ASN:OD1	2.37	0.67
21:BI:10:THR:HG22	22:BJ:125:ARG:HB2	1.76	0.67
2:AV:250:LEU:HA	2:AV:253:LEU:HD12	1.77	0.66
9:Ac:118:PHE:HD1	16:AE:103:THR:CG2	1.89	0.66
15:AD:412:GLN:HG3	15:AD:414:HIS:H	1.59	0.66
16:AE:180:LYS:HG3	16:AE:181:THR:H	1.59	0.66
24:AL:107:ARG:NH2	32:AT:79:ASP:OD2	2.22	0.66
30:AR:26:ILE:C	28:BP:177:ARG:HD3	2.19	0.66
2:BV:337:LEU:O	2:BV:401:ASN:ND2	2.29	0.66
5:BY:13:LYS:HG2	5:BY:146:ARG:HD2	1.77	0.66
12:Bf:349:TYR:CZ	12:Bf:827:PRO:HB3	2.30	0.66
12:Bf:774:GLY:HA2	12:Bf:778:LEU:H	1.60	0.66
13:BA:223:THR:OG1	34:BA:501:ATP:O2A	2.13	0.66
17:BF:83:ASN:O	17:BF:154:ASN:ND2	2.28	0.66
19:BG:127:GLN:NE2	20:BH:121:TYR:OH	2.28	0.66
32:BT:96:MET:HE1	32:BT:106:LEU:HB2	1.77	0.66
2:AV:336:GLU:HA	2:AV:339:LEU:HD12	1.77	0.66
5:AY:13:LYS:HG2	5:AY:146:ARG:HD2	1.77	0.66
9:Ac:278:GLN:HA	9:Ac:279:ASP:HB2	1.78	0.66
26:AN:162:LEU:HD13	26:BN:137:GLY:O	1.94	0.66
28:AP:173:ASN:ND2	31:BS:151:ASN:HD22	1.94	0.66
31:AS:33:PHE:CG	27:BO:167:LEU:HB2	2.30	0.66
7:Ba:270:ARG:HH11	7:Ba:313:LYS:HB3	1.58	0.66
7:Ba:270:ARG:NH1	7:Ba:310:LEU:O	2.28	0.66
14:BB:105:THR:HG23	14:BB:106:PRO:HD3	1.77	0.66
13:AA:373:LEU:HD11	13:AA:413:VAL:HG11	1.77	0.66
17:AF:86:LEU:C	17:AF:154:ASN:OD1	2.37	0.66
19:AG:127:GLN:NE2	20:AH:121:TYR:OH	2.28	0.66
24:AL:7:ASP:O	24:AL:21:GLN:NE2	2.27	0.66
29:AQ:144:ASP:C	30:BR:162:GLN:NE2	2.51	0.66
30:AR:140:ASP:C	29:BQ:166:GLU:CD	2.62	0.66
30:AR:141:ARG:CZ	29:BQ:165:GLU:HB2	2.25	0.66
2:BV:447:ILE:HG13	2:BV:449:ALA:H	1.61	0.66
13:BA:375:ARG:HH12	23:BK:205:VAL:HB	1.59	0.66
1:AU:247:GLN:HE22	1:AU:912:ILE:HG22	1.60	0.66
14:AB:393:ALA:HA	14:AB:396:LYS:HB3	1.76	0.66
6:BZ:142:GLU:OE2	6:BZ:153:LYS:NZ	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bc:278:GLN:HA	9:Bc:279:ASP:HB2	1.77	0.66
20:BH:43:GLY:HA2	20:BH:144:PRO:HG3	1.76	0.66
20:BH:45:VAL:HG22	20:BH:212:ILE:HG22	1.78	0.66
2:AV:337:LEU:O	2:AV:401:ASN:ND2	2.28	0.66
7:Aa:244:ASN:ND2	7:Aa:276:CYS:SG	2.68	0.66
10:Ad:214:GLY:N	10:Ad:215:TRP:HB3	2.09	0.66
18:AC:229:ARG:HG2	18:AC:231:VAL:HG22	1.76	0.66
18:AC:325:ARG:NH2	18:AC:353:GLY:O	2.26	0.66
18:AC:350:LEU:HB3	18:AC:387:VAL:HG11	1.78	0.66
23:AK:200:ILE:HA	23:AK:203:LYS:HZ3	1.59	0.66
23:AK:221:GLN:HB2	23:AK:224:GLN:HB3	1.77	0.66
26:AN:136:TYR:CD2	26:BN:134:TYR:CD1	2.83	0.66
16:BE:242:ARG:HB3	16:BE:254:GLN:HG3	1.77	0.66
23:BK:221:GLN:HB2	23:BK:224:GLN:HB3	1.77	0.66
3:AW:55:ARG:HH12	3:AW:79:GLU:HG3	1.60	0.66
13:AA:223:THR:OG1	34:AA:501:ATP:O2A	2.13	0.66
27:AO:165:ASN:CG	32:BT:148:PRO:HB3	2.21	0.66
29:AQ:166:GLU:CD	30:BR:140:ASP:C	2.64	0.66
1:BU:35:TRP:HB3	1:BU:70:HIS:CG	2.31	0.66
3:BW:48:LEU:HD12	3:BW:96:GLN:HE22	1.60	0.66
18:BC:229:ARG:HG2	18:BC:231:VAL:HG22	1.76	0.66
22:BJ:7:ILE:HG13	22:BJ:124:ARG:H	1.59	0.66
2:AV:282:ASN:O	2:AV:315:LYS:NZ	2.28	0.66
9:Ac:157:ILE:HG12	9:Ac:158:ASP:H	1.60	0.66
17:AF:83:ASN:O	17:AF:154:ASN:ND2	2.28	0.66
7:Ba:244:ASN:ND2	7:Ba:276:CYS:SG	2.68	0.66
29:BQ:4:LEU:HD13	29:BQ:17:SER:HB2	1.78	0.66
16:AE:242:ARG:HB3	16:AE:254:GLN:HG3	1.77	0.66
24:AL:229:VAL:HG12	24:AL:233:LEU:HG	1.78	0.66
27:AO:199:LEU:CD1	31:BS:177:ASP:OD1	2.42	0.66
30:AR:141:ARG:NE	29:BQ:162:LYS:HB3	2.09	0.66
31:AS:144:MET:CB	28:BP:144:GLU:HG2	2.26	0.66
31:AS:174:LEU:O	27:BO:199:LEU:CD2	2.35	0.66
2:BV:345:ARG:HD3	2:BV:361:PHE:HD1	1.61	0.66
2:BV:455:LYS:N	2:BV:456:GLY:HA2	2.10	0.66
12:Bf:747:GLN:HA	12:Bf:750:GLN:HB2	1.78	0.66
4:AX:122:ARG:HH21	20:AH:185:GLU:CG	2.00	0.66
7:Aa:270:ARG:NH1	7:Aa:310:LEU:O	2.28	0.66
30:AR:133:VAL:CG2	29:BQ:137:PHE:CB	2.74	0.66
1:BU:338:HIS:CE1	1:BU:785:PRO:HB3	2.31	0.66
18:BC:298:ILE:O	18:BC:301:LEU:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:35:TRP:HB3	1:AU:70:HIS:CG	2.30	0.66
6:AZ:262:LEU:HD23	6:AZ:265:LEU:HD22	1.76	0.66
13:AA:170:PRO:HA	13:AA:229:VAL:HG12	1.76	0.66
19:AG:110:PRO:O	19:AG:111:VAL:HG12	1.96	0.66
27:AO:64:GLU:O	27:AO:68:LEU:HB2	1.96	0.66
29:AQ:137:PHE:O	30:BR:134:TYR:HD1	1.78	0.66
2:BV:336:GLU:HA	2:BV:339:LEU:HD12	1.77	0.66
9:Bc:154:LYS:HZ2	15:BD:81:ARG:NH1	1.94	0.66
29:BQ:3:TYR:CZ	29:BQ:131:ALA:HA	2.30	0.66
2:AV:455:LYS:N	2:AV:456:GLY:HA2	2.10	0.65
26:AN:18:SER:HB2	26:AN:30:VAL:HA	1.78	0.65
32:AT:96:MET:HE1	32:AT:106:LEU:HB2	1.76	0.65
17:BF:223:VAL:HG13	17:BF:329:ILE:HG23	1.77	0.65
21:BI:228:LEU:HD13	21:BI:233:VAL:HG21	1.78	0.65
19:AG:123:GLN:HG2	20:AH:85:VAL:HG21	1.78	0.65
29:AQ:3:TYR:CZ	29:AQ:131:ALA:HA	2.30	0.65
17:BF:89:LEU:HG	17:BF:153:VAL:HG13	1.78	0.65
26:BN:18:SER:HB2	26:BN:30:VAL:HA	1.78	0.65
1:AU:742:HIS:O	1:AU:883:ARG:NH2	2.29	0.65
2:AV:79:VAL:HG13	2:AV:80:LYS:H	1.60	0.65
12:Af:350:LYS:NZ	12:Af:826:GLN:O	2.30	0.65
14:AB:139:VAL:HA	14:AB:140:ASP:HB3	1.79	0.65
17:AF:97:LEU:HD13	17:AF:120:LYS:CD	2.26	0.65
25:AM:15:SER:OG	25:AM:17:ASP:OD1	2.07	0.65
28:AP:177:ARG:HD3	30:BR:26:ILE:C	2.18	0.65
29:AQ:4:LEU:HD13	29:AQ:17:SER:HB2	1.78	0.65
32:AT:144:TYR:HB3	27:BO:132:LEU:CD1	2.27	0.65
1:BU:742:HIS:O	1:BU:883:ARG:NH2	2.29	0.65
3:BW:55:ARG:HH12	3:BW:79:GLU:HG3	1.60	0.65
23:BK:48:LEU:N	23:BK:218:ALA:O	2.28	0.65
1:AU:338:HIS:CE1	1:AU:785:PRO:HB3	2.31	0.65
2:AV:322:VAL:HG13	2:AV:323:GLY:H	1.62	0.65
4:AX:83:ALA:HB1	20:AH:229:TYR:HB2	1.79	0.65
10:Ad:147:SER:HB3	10:Ad:151:VAL:HG23	1.77	0.65
1:BU:68:PHE:HB3	1:BU:73:ALA:HB3	1.79	0.65
2:BV:322:VAL:HG13	2:BV:323:GLY:H	1.62	0.65
9:Bc:157:ILE:HG12	9:Bc:158:ASP:H	1.60	0.65
12:Bf:531:ASN:N	12:Bf:532:GLY:HA2	2.11	0.65
12:Bf:551:LYS:O	12:Bf:592:ASN:ND2	2.25	0.65
24:BL:41:LYS:NZ	24:BL:180:MET:O	2.30	0.65
2:AV:195:ILE:HD11	18:AC:19:GLY:HA2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ac:191:ALA:O	9:Ac:194:HIS:ND1	2.26	0.65
21:AI:2:SER:N	24:AL:123:TYR:HH	1.94	0.65
13:BA:373:LEU:HD11	13:BA:413:VAL:HG11	1.77	0.65
14:BB:103:ARG:CD	14:BB:107:MET:SD	2.84	0.65
14:BB:261:GLY:HA2	14:BB:262:ASP:HB3	1.77	0.65
18:BC:350:LEU:HB3	18:BC:387:VAL:HG11	1.78	0.65
19:BG:110:PRO:O	19:BG:111:VAL:HG12	1.96	0.65
22:BJ:18:GLN:O	22:BJ:22:ALA:CB	2.44	0.65
2:AV:333:ILE:HD11	2:AV:360:TYR:HE2	1.60	0.65
7:Aa:135:ILE:HG12	7:Aa:158:LEU:HD13	1.79	0.65
12:Af:848:GLN:HA	12:Af:851:ASP:HB3	1.78	0.65
16:AE:208:ILE:O	16:AE:210:GLU:N	2.28	0.65
20:AH:15:PRO:HA	21:AI:23:TYR:CZ	2.32	0.65
20:AH:45:VAL:HG22	20:AH:212:ILE:HG22	1.78	0.65
29:AQ:165:GLU:HB2	30:BR:141:ARG:CZ	2.25	0.65
2:BV:195:ILE:HD11	18:BC:19:GLY:HA2	1.79	0.65
6:BZ:262:LEU:HD23	6:BZ:265:LEU:HD22	1.76	0.65
14:BB:139:VAL:HA	14:BB:140:ASP:HB3	1.79	0.65
15:BD:289:LEU:O	15:BD:293:LEU:HB2	1.97	0.65
18:BC:286:THR:HG23	18:BC:287:LYS:H	1.61	0.65
24:BL:186:GLU:HA	24:BL:189:LYS:HG2	1.79	0.65
4:AX:124:PHE:CE1	20:AH:234:ALA:OXT	2.50	0.65
4:AX:171:LEU:O	4:AX:213:GLN:NE2	2.28	0.65
16:AE:235:ILE:HG22	16:AE:279:THR:HB	1.76	0.65
27:AO:132:LEU:CD1	32:BT:144:TYR:HB3	2.27	0.65
2:BV:250:LEU:HA	2:BV:253:LEU:HD12	1.77	0.65
14:BB:199:GLU:HG3	14:BB:203:LEU:HB2	1.79	0.65
16:BE:181:THR:O	16:BE:185:ARG:CB	2.34	0.65
13:AA:166:VAL:HA	13:AA:238:ILE:HD12	1.79	0.65
14:AB:103:ARG:CD	14:AB:107:MET:SD	2.84	0.65
15:AD:194:ILE:HD13	18:AC:371:LEU:HB2	1.76	0.65
27:AO:208:THR:OG1	31:BS:159:GLN:CA	2.45	0.65
29:AQ:22:ALA:HA	29:BQ:170:ARG:HH11	1.62	0.65
20:BH:15:PRO:HA	21:BI:23:TYR:CZ	2.32	0.65
7:Aa:112:ILE:HD12	7:Aa:113:LEU:H	1.62	0.65
12:Af:531:ASN:N	12:Af:532:GLY:HA2	2.11	0.65
12:Af:788:MET:HE2	12:Af:808:ASN:HD21	1.61	0.65
15:AD:96:VAL:HG21	15:AD:112:TYR:HE1	1.62	0.65
15:AD:289:LEU:O	15:AD:293:LEU:HB2	1.97	0.65
27:AO:195:LYS:CE	31:BS:180:ILE:C	2.65	0.65
27:AO:199:LEU:HB2	31:BS:177:ASP:OD2	1.68	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AT:33:LEU:HD11	26:BN:166:ARG:CG	2.26	0.65
1:BU:109:THR:OG1	1:BU:156:GLU:O	2.11	0.65
4:BX:124:PHE:CE1	20:BH:234:ALA:OXT	2.50	0.65
17:BF:200:GLU:O	17:BF:204:LEU:HG	1.97	0.65
28:BP:58:THR:OG1	29:BQ:121:LEU:O	2.10	0.65
9:Ac:154:LYS:HZ2	15:AD:81:ARG:NH1	1.93	0.65
22:AJ:18:GLN:O	22:AJ:22:ALA:CB	2.44	0.65
31:AS:177:ASP:OD1	27:BO:199:LEU:CD1	2.43	0.65
1:BU:247:GLN:HE22	1:BU:912:ILE:HG22	1.60	0.65
2:BV:333:ILE:HD11	2:BV:360:TYR:CE2	2.32	0.65
12:Bf:380:PHE:CZ	12:Bf:389:LYS:HD3	2.32	0.65
12:Bf:759:LEU:O	12:Bf:763:ARG:CB	2.44	0.65
3:AW:90:LEU:HD22	15:AD:390:ASN:HB3	1.80	0.64
12:Af:573:ILE:HG13	12:Af:576:ILE:HD11	1.79	0.64
15:AD:285:VAL:HA	15:AD:288:ILE:HD12	1.79	0.64
16:AE:82:GLY:O	16:AE:106:THR:OG1	2.09	0.64
18:AC:378:VAL:HG12	18:AC:379:THR:H	1.62	0.64
26:AN:138:TYR:N	26:BN:138:TYR:CB	2.47	0.64
7:Ba:135:ILE:HG12	7:Ba:158:LEU:HD13	1.79	0.64
12:Bf:788:MET:HE2	12:Bf:808:ASN:HD21	1.61	0.64
13:BA:90:GLU:CG	13:BA:94:GLN:HE22	2.06	0.64
15:BD:96:VAL:HG21	15:BD:112:TYR:HE1	1.62	0.64
27:BO:64:GLU:O	27:BO:68:LEU:HB2	1.96	0.64
12:Af:613:LEU:O	12:Af:617:SER:OG	2.11	0.64
13:AA:333:ARG:HH12	13:AA:340:LYS:HD3	1.62	0.64
14:AB:105:THR:HG23	14:AB:106:PRO:HD3	1.77	0.64
16:AE:265:ASP:OD2	16:AE:294:ARG:NH2	2.30	0.64
13:BA:92:PRO:HB2	13:BA:93:LEU:HD12	1.79	0.64
17:BF:97:LEU:HD13	17:BF:120:LYS:CD	2.26	0.64
19:BG:123:GLN:HG2	20:BH:85:VAL:HG21	1.78	0.64
24:BL:229:VAL:HG12	24:BL:233:LEU:HG	1.77	0.64
12:Af:737:ASN:ND2	12:Af:769:THR:OG1	2.30	0.64
12:Af:747:GLN:HA	12:Af:750:GLN:HB2	1.78	0.64
25:AM:122:TYR:HD1	25:AM:128:VAL:HG21	1.63	0.64
4:BX:83:ALA:HB1	20:BH:229:TYR:HB2	1.79	0.64
13:BA:292:ASP:OD1	14:BB:303:ARG:NH2	2.20	0.64
18:BC:217:SER:HB3	18:BC:218:GLU:CB	2.25	0.64
24:BL:85:CYS:O	24:BL:89:ARG:HG2	1.97	0.64
1:AU:789:ILE:HG23	1:AU:844:LYS:HE2	1.79	0.64
2:AV:333:ILE:HD11	2:AV:360:TYR:CE2	2.32	0.64
2:AV:447:ILE:HG13	2:AV:449:ALA:H	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:562:LEU:HD11	12:Af:569:LYS:HG2	1.79	0.64
15:AD:82:ILE:N	15:AD:82:ILE:HD12	2.13	0.64
18:AC:133:PRO:O	18:AC:137:LEU:CB	2.42	0.64
18:AC:344:LEU:HA	18:AC:347:ILE:HG22	1.79	0.64
1:BU:199:ARG:O	1:BU:203:LYS:NZ	2.27	0.64
10:Bd:147:SER:HB3	10:Bd:151:VAL:HG23	1.77	0.64
12:Bf:737:ASN:ND2	12:Bf:769:THR:OG1	2.30	0.64
14:BB:135:ILE:HG12	14:BB:159:VAL:HG13	1.79	0.64
18:BC:117:ARG:N	18:BC:122:THR:O	2.31	0.64
9:Ac:180:ASN:HB2	9:Ac:204:THR:HG21	1.78	0.64
12:Af:248:LEU:O	12:Af:252:ALA:HB2	1.98	0.64
13:AA:297:ARG:O	13:AA:301:GLU:HB2	1.98	0.64
14:AB:199:GLU:HG3	14:AB:203:LEU:HB2	1.79	0.64
17:AF:89:LEU:HG	17:AF:153:VAL:HG13	1.78	0.64
18:AC:286:THR:HG23	18:AC:287:LYS:H	1.61	0.64
29:AQ:137:PHE:CB	30:BR:133:VAL:CG2	2.74	0.64
12:Bf:687:ARG:NH1	13:BA:78:TRP:CG	2.66	0.64
18:BC:344:LEU:HA	18:BC:347:ILE:HG22	1.79	0.64
15:AD:130:VAL:HA	15:AD:142:VAL:HA	1.79	0.64
16:AE:149:ILE:HA	16:AE:274:LYS:HE2	1.79	0.64
16:AE:327:ASP:N	16:AE:364:GLN:OE1	2.27	0.64
27:AO:193:ASN:HD21	31:BS:213:ASP:CB	1.90	0.64
5:BY:174:TRP:HE3	18:BC:334:ARG:HA	1.62	0.64
6:BZ:225:GLN:HG2	6:BZ:228:TYR:HE2	1.63	0.64
8:Bb:164:ASP:N	8:Bb:165:GLY:HA2	2.13	0.64
12:Bf:350:LYS:NZ	12:Bf:826:GLN:O	2.30	0.64
13:BA:297:ARG:O	13:BA:301:GLU:HB2	1.98	0.64
14:BB:301:GLY:H	14:BB:304:GLU:HB3	1.63	0.64
14:BB:317:ASP:HB3	14:BB:318:GLY:HA2	1.79	0.64
24:BL:107:ARG:NH2	32:BT:79:ASP:OD2	2.22	0.64
29:BQ:13:VAL:HB	29:BQ:183:ILE:HB	1.79	0.64
5:AY:174:TRP:HE3	18:AC:334:ARG:HA	1.62	0.64
12:Af:380:PHE:CZ	12:Af:389:LYS:HD3	2.32	0.64
12:Af:429:ILE:HD12	12:Af:433:LEU:HD12	1.80	0.64
17:AF:200:GLU:O	17:AF:204:LEU:HG	1.97	0.64
30:AR:134:TYR:HD1	29:BQ:137:PHE:O	1.80	0.64
1:BU:789:ILE:HG23	1:BU:844:LYS:HE2	1.79	0.64
3:BW:90:LEU:HD22	15:BD:390:ASN:HB3	1.80	0.64
12:Bf:848:GLN:HA	12:Bf:851:ASP:HB3	1.78	0.64
2:AV:167:LEU:HD11	2:AV:171:VAL:HB	1.79	0.64
13:AA:401:ARG:HH12	13:AA:404:ALA:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AD:323:ARG:HD3	18:AC:142:LYS:HD3	1.78	0.64
16:AE:128:GLY:O	16:AE:189:SER:OG	2.15	0.64
17:AF:301:ALA:HB3	17:AF:304:ARG:HB2	1.80	0.64
21:AI:228:LEU:HD13	21:AI:233:VAL:HG21	1.78	0.64
24:AL:85:CYS:O	24:AL:89:ARG:HG2	1.98	0.64
27:AO:63:LEU:HD11	27:AO:79:ALA:HB2	1.78	0.64
1:BU:215:ASN:OD1	1:BU:216:VAL:N	2.30	0.64
6:BZ:97:THR:HA	6:BZ:124:ILE:HG13	1.80	0.64
13:BA:289:ALA:HB1	17:BF:295:ARG:HD3	1.78	0.64
13:BA:415:LYS:O	13:BA:419:SER:OG	2.11	0.64
12:Af:558:LEU:HD23	12:Af:577:LEU:HD21	1.80	0.64
15:AD:193:GLN:O	18:AC:337:ASN:ND2	2.31	0.64
18:AC:187:LEU:HD11	18:AC:314:LYS:HD2	1.80	0.64
29:AQ:13:VAL:HB	29:AQ:183:ILE:HB	1.79	0.64
31:AS:4:PRO:HB2	32:AT:100:ARG:NH2	2.12	0.64
2:BV:224:LEU:HD12	2:BV:228:ARG:HG3	1.80	0.64
9:Bc:191:ALA:O	9:Bc:194:HIS:ND1	2.26	0.64
14:BB:426:VAL:HA	14:BB:429:LYS:HB3	1.80	0.64
15:BD:285:VAL:HA	15:BD:288:ILE:HD12	1.79	0.64
25:BM:37:ILE:HD11	25:BM:193:VAL:HG13	1.80	0.64
10:Ad:191:PHE:HA	10:Ad:222:TYR:HE1	1.62	0.64
12:Af:687:ARG:NH1	13:AA:78:TRP:CG	2.66	0.64
14:AB:301:GLY:H	14:AB:304:GLU:HB3	1.63	0.64
24:AL:186:GLU:HA	24:AL:189:LYS:HG2	1.79	0.64
13:BA:401:ARG:HH12	13:BA:404:ALA:HA	1.62	0.64
18:BC:378:VAL:HG12	18:BC:379:THR:H	1.62	0.64
31:BS:4:PRO:HB2	32:BT:100:ARG:NH2	2.12	0.64
1:AU:68:PHE:HB3	1:AU:73:ALA:HB3	1.79	0.63
6:AZ:225:GLN:HG2	6:AZ:228:TYR:HE2	1.63	0.63
12:Af:389:LYS:NZ	12:Af:825:MET:SD	2.71	0.63
12:Af:810:ILE:O	12:Af:814:SER:CB	2.46	0.63
14:AB:226:GLY:HA3	14:AB:353:PHE:HB3	1.80	0.63
19:AG:53:GLN:HA	19:AG:215:ILE:HA	1.80	0.63
25:AM:8:ASP:O	25:AM:22:GLN:NE2	2.26	0.63
31:AS:151:ASN:HD22	28:BP:173:ASN:ND2	1.96	0.63
2:BV:190:ASP:HA	2:BV:200:ARG:HH21	1.62	0.63
10:Bd:103:LEU:HD11	10:Bd:115:PHE:CD1	2.32	0.63
10:Bd:191:PHE:HA	10:Bd:222:TYR:HE1	1.62	0.63
12:Bf:573:ILE:HG13	12:Bf:576:ILE:HD11	1.79	0.63
16:BE:208:ILE:O	16:BE:210:GLU:N	2.28	0.63
25:BM:122:TYR:HD1	25:BM:128:VAL:HG21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:203:LYS:O	1:AU:207:ASN:ND2	2.31	0.63
4:AX:90:ARG:HH21	4:AX:125:LEU:HA	1.63	0.63
6:AZ:250:TYR:O	6:AZ:254:ASN:HB2	1.98	0.63
13:AA:289:ALA:HB1	17:AF:295:ARG:HD3	1.78	0.63
15:AD:114:ARG:NH2	18:AC:62:GLU:CG	2.57	0.63
22:AJ:186:LEU:O	22:AJ:190:LEU:HB2	1.98	0.63
27:AO:202:TYR:OH	31:BS:174:LEU:HD23	1.97	0.63
3:BW:340:VAL:HG22	3:BW:350:ARG:HH11	1.63	0.63
12:Bf:613:LEU:O	12:Bf:617:SER:OG	2.11	0.63
12:Bf:810:ILE:O	12:Bf:814:SER:CB	2.46	0.63
13:BA:166:VAL:HA	13:BA:238:ILE:HD12	1.79	0.63
16:BE:265:ASP:OD2	16:BE:294:ARG:NH2	2.30	0.63
18:BC:158:ILE:HA	18:BC:161:ILE:HG22	1.80	0.63
25:BM:40:ARG:HE	25:BM:161:TRP:CD1	2.16	0.63
30:BR:52:CYS:HA	30:BR:97:MET:HE3	1.81	0.63
9:Ac:281:LYS:HB2	9:Ac:282:ARG:HA	1.81	0.63
13:AA:248:LYS:HG2	14:AB:261:GLY:O	1.99	0.63
12:Bf:389:LYS:NZ	12:Bf:825:MET:SD	2.71	0.63
13:BA:333:ARG:HH12	13:BA:340:LYS:HD3	1.62	0.63
15:BD:130:VAL:HA	15:BD:142:VAL:HA	1.79	0.63
15:BD:193:GLN:O	18:BC:337:ASN:ND2	2.31	0.63
18:BC:201:ARG:O	18:BC:205:HIS:CB	2.46	0.63
19:BG:53:GLN:HA	19:BG:215:ILE:HA	1.80	0.63
27:BO:63:LEU:HD11	27:BO:79:ALA:HB2	1.78	0.63
1:AU:156:GLU:OE2	15:AD:45:LYS:NZ	2.32	0.63
1:AU:215:ASN:OD1	1:AU:216:VAL:N	2.30	0.63
2:AV:190:ASP:HA	2:AV:200:ARG:HH21	1.63	0.63
12:Af:457:ASN:H	12:Af:488:ALA:HA	1.64	0.63
12:Af:749:ALA:HB2	12:Af:762:VAL:HG11	1.80	0.63
14:AB:103:ARG:CG	14:AB:107:MET:SD	2.87	0.63
18:AC:117:ARG:N	18:AC:122:THR:O	2.31	0.63
18:AC:158:ILE:HA	18:AC:161:ILE:HG22	1.80	0.63
24:AL:117:GLN:O	24:AL:120:THR:OG1	2.15	0.63
30:AR:141:ARG:N	29:BQ:166:GLU:CD	2.56	0.63
9:Bc:180:ASN:HB2	9:Bc:204:THR:HG21	1.78	0.63
29:BQ:57:ALA:O	29:BQ:61:GLN:CB	2.46	0.63
12:Af:390:LEU:O	12:Af:394:ASP:CB	2.36	0.63
12:Af:688:ARG:HD2	12:Af:720:GLU:HB3	1.80	0.63
13:AA:349:GLU:O	13:AA:352:THR:HG22	1.98	0.63
14:AB:135:ILE:HG12	14:AB:159:VAL:HG13	1.79	0.63
14:AB:317:ASP:HB3	14:AB:318:GLY:HA2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AI:49:ARG:NH1	21:AI:64:LYS:H	1.97	0.63
25:AM:37:ILE:HD11	25:AM:193:VAL:HG13	1.80	0.63
26:AN:166:ARG:HG3	32:BT:33:LEU:HD11	1.79	0.63
30:AR:134:TYR:O	29:BQ:141:SER:HB3	1.98	0.63
30:AR:141:ARG:HA	29:BQ:166:GLU:OE2	1.98	0.63
12:Bf:457:ASN:H	12:Bf:488:ALA:HA	1.63	0.63
14:BB:218:PRO:HB2	14:BB:346:ARG:HH12	1.62	0.63
14:BB:343:ARG:HA	14:BB:347:ILE:HD13	1.81	0.63
22:BJ:186:LEU:O	22:BJ:190:LEU:HB2	1.98	0.63
2:AV:345:ARG:HD3	2:AV:361:PHE:HD1	1.61	0.63
15:AD:388:ARG:HH12	16:AE:143:ARG:HG3	1.63	0.63
25:AM:40:ARG:HE	25:AM:161:TRP:CD1	2.16	0.63
29:AQ:170:ARG:HH11	29:BQ:22:ALA:HA	1.60	0.63
9:Bc:281:LYS:HB2	9:Bc:282:ARG:HA	1.80	0.63
12:Bf:248:LEU:O	12:Bf:252:ALA:HB2	1.98	0.63
12:Bf:688:ARG:HD2	12:Bf:720:GLU:HB3	1.80	0.63
13:BA:248:LYS:HG2	14:BB:261:GLY:O	1.99	0.63
14:BB:103:ARG:CG	14:BB:107:MET:SD	2.87	0.63
6:AZ:54:PHE:HB3	6:AZ:82:PHE:HE2	1.63	0.63
10:Ad:103:LEU:HD11	10:Ad:115:PHE:CD1	2.32	0.63
12:Af:677:HIS:HA	12:Af:680:ARG:HG2	1.81	0.63
21:AI:143:TYR:HB2	21:AI:146:GLN:HE21	1.64	0.63
29:AQ:166:GLU:CD	30:BR:141:ARG:N	2.56	0.63
1:BU:156:GLU:OE2	15:BD:45:LYS:NZ	2.32	0.63
5:BY:262:SER:HB3	5:BY:270:VAL:HG11	1.81	0.63
12:Bf:429:ILE:HD12	12:Bf:433:LEU:HD12	1.80	0.63
18:BC:133:PRO:O	18:BC:137:LEU:CB	2.42	0.63
18:BC:213:ARG:NH2	18:BC:249:ASP:OD1	2.32	0.63
14:AB:218:PRO:HB2	14:AB:346:ARG:HH12	1.62	0.63
31:AS:173:ARG:HD3	27:BO:200:GLY:HA3	1.81	0.63
12:Bf:562:LEU:HD11	12:Bf:569:LYS:HG2	1.79	0.63
14:BB:431:GLN:HG2	21:BI:169:ALA:HB3	1.81	0.63
15:BD:82:ILE:HD12	15:BD:82:ILE:N	2.13	0.63
16:BE:149:ILE:HA	16:BE:274:LYS:HE2	1.79	0.63
21:BI:49:ARG:NH1	21:BI:64:LYS:H	1.97	0.63
24:BL:148:CYS:HG	24:BL:150:SER:HG	1.44	0.63
4:AX:409:LYS:HE2	9:Ac:260:GLU:HB3	1.80	0.63
12:Af:726:ILE:HG13	12:Af:764:LEU:HD22	1.80	0.63
13:AA:92:PRO:HB2	13:AA:93:LEU:HD12	1.79	0.63
13:AA:292:ASP:OD1	14:AB:303:ARG:NH2	2.20	0.63
15:AD:181:VAL:O	15:AD:306:LYS:NZ	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:166:GLU:OE1	18:AC:170:LYS:NZ	2.27	0.63
22:AJ:116:GLN:NE2	22:AJ:150:SER:O	2.32	0.63
26:AN:166:ARG:CG	32:BT:33:LEU:HD11	2.29	0.63
30:AR:134:TYR:CD1	29:BQ:137:PHE:HA	2.34	0.63
3:BW:72:LYS:HZ1	3:BW:122:LEU:HB2	1.64	0.63
6:BZ:250:TYR:O	6:BZ:254:ASN:HB2	1.98	0.63
9:Bc:154:LYS:CE	15:BD:81:ARG:HH22	2.12	0.63
12:Bf:749:ALA:HB2	12:Bf:762:VAL:HG11	1.80	0.63
15:BD:323:ARG:HD3	18:BC:142:LYS:HD3	1.78	0.63
12:Af:834:ASP:OD1	12:Af:838:ARG:NH1	2.32	0.62
18:AC:201:ARG:O	18:AC:205:HIS:CB	2.46	0.62
24:AL:109:VAL:HG21	24:AL:145:PHE:HD2	1.64	0.62
28:AP:144:GLU:HG2	31:BS:144:MET:CB	2.26	0.62
28:AP:176:ASP:OD2	31:BS:157:ASN:CG	2.42	0.62
31:AS:180:ILE:CA	27:BO:195:LYS:HE3	2.29	0.62
2:BV:79:VAL:O	2:BV:80:LYS:NZ	2.26	0.62
15:BD:181:VAL:O	15:BD:306:LYS:NZ	2.31	0.62
22:BJ:116:GLN:NE2	22:BJ:150:SER:O	2.32	0.62
2:AV:228:ARG:O	2:AV:232:HIS:ND1	2.31	0.62
12:Af:245:ASN:HA	12:Af:248:LEU:HB3	1.80	0.62
14:AB:268:ARG:HA	14:AB:315:GLN:HE22	1.64	0.62
14:AB:431:GLN:HG2	21:AI:169:ALA:HB3	1.81	0.62
16:AE:269:THR:OG1	16:AE:271:HIS:ND1	2.32	0.62
29:AQ:141:SER:HB3	30:BR:134:TYR:O	1.98	0.62
3:BW:171:VAL:HG11	15:BD:392:TYR:OH	1.99	0.62
12:Bf:558:LEU:HD23	12:Bf:577:LEU:HD21	1.80	0.62
15:BD:114:ARG:NH2	18:BC:62:GLU:CG	2.57	0.62
16:BE:212:ALA:HB2	16:BE:256:THR:HG22	1.81	0.62
32:BT:153:VAL:HG21	32:BT:168:LEU:HD11	1.82	0.62
2:AV:173:ILE:O	2:AV:177:ASN:ND2	2.32	0.62
3:AW:408:ARG:HD2	4:AX:346:GLN:HE22	1.64	0.62
5:AY:262:SER:HB3	5:AY:270:VAL:HG11	1.81	0.62
13:AA:297:ARG:O	13:AA:301:GLU:CB	2.47	0.62
23:AK:48:LEU:N	23:AK:218:ALA:O	2.28	0.62
29:AQ:57:ALA:O	29:AQ:61:GLN:CB	2.46	0.62
4:BX:90:ARG:HH21	4:BX:125:LEU:HA	1.63	0.62
9:Bc:174:PRO:HB2	9:Bc:175:ARG:HD3	1.81	0.62
14:BB:226:GLY:HA3	14:BB:353:PHE:HB3	1.80	0.62
14:BB:268:ARG:HA	14:BB:315:GLN:HE22	1.64	0.62
14:BB:298:ASN:HD22	16:BE:246:GLY:HA2	1.64	0.62
5:AY:110:TYR:O	5:AY:113:ARG:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AL:41:LYS:NZ	24:AL:180:MET:O	2.30	0.62
25:AM:55:SER:H	25:AM:57:LEU:HG	1.63	0.62
31:AS:157:ASN:HB2	28:BP:173:ASN:ND2	2.14	0.62
3:BW:408:ARG:HD2	4:BX:346:GLN:HE22	1.64	0.62
6:BZ:144:VAL:HG12	6:BZ:145:HIS:H	1.64	0.62
7:Ba:112:ILE:HD12	7:Ba:113:LEU:H	1.62	0.62
12:Bf:677:HIS:HA	12:Bf:680:ARG:HG2	1.81	0.62
12:Bf:834:ASP:OD1	12:Bf:838:ARG:NH1	2.32	0.62
17:BF:301:ALA:HB3	17:BF:304:ARG:HB2	1.80	0.62
5:AY:210:SER:HB3	5:AY:213:LEU:HB2	1.82	0.62
12:Af:838:ARG:HB2	12:Af:839:PRO:HD3	1.82	0.62
13:AA:89:SER:C	13:AA:92:PRO:HD2	2.24	0.62
31:AS:57:PHE:HD2	31:AS:60:ASP:H	1.48	0.62
2:BV:167:LEU:HD11	2:BV:171:VAL:HB	1.80	0.62
5:BY:17:LEU:HA	5:BY:150:PHE:HE1	1.64	0.62
5:BY:210:SER:HB3	5:BY:213:LEU:HB2	1.82	0.62
15:BD:388:ARG:HH12	16:BE:143:ARG:HG3	1.63	0.62
18:BC:69:GLN:OE1	18:BC:118:ASN:CB	2.48	0.62
18:BC:187:LEU:HD11	18:BC:314:LYS:HD2	1.80	0.62
26:BN:14:LEU:HD11	26:BN:101:ALA:HB3	1.81	0.62
6:AZ:97:THR:HA	6:AZ:124:ILE:HG13	1.80	0.62
6:AZ:220:LEU:HB3	6:AZ:221:PRO:HA	1.81	0.62
12:Af:460:ASP:OD1	12:Af:461:PRO:HD3	1.99	0.62
15:AD:178:ARG:HD3	15:AD:182:GLU:HG2	1.81	0.62
18:AC:310:ARG:HB2	18:AC:311:ILE:HG23	1.81	0.62
31:AS:177:ASP:OD2	27:BO:199:LEU:HB2	1.70	0.62
13:BA:349:GLU:O	13:BA:352:THR:HG22	1.98	0.62
20:BH:118:MET:HE2	20:BH:151:PRO:HA	1.82	0.62
32:BT:99:ARG:HG3	32:BT:105:PRO:HA	1.82	0.62
2:AV:89:LYS:HD3	2:AV:92:ARG:HH11	1.65	0.62
18:AC:313:ARG:NH1	18:AC:314:LYS:O	2.32	0.62
23:AK:232:GLU:H	23:AK:235:GLU:HG3	1.65	0.62
30:AR:21:THR:HG22	30:AR:27:ALA:H	1.65	0.62
30:AR:52:CYS:HA	30:AR:97:MET:HE3	1.81	0.62
2:BV:228:ARG:O	2:BV:232:HIS:ND1	2.31	0.62
15:BD:178:ARG:HD3	15:BD:182:GLU:HG2	1.81	0.62
29:BQ:140:LEU:O	29:BQ:144:ASP:CB	2.48	0.62
13:AA:190:VAL:HG11	13:AA:212:VAL:HG11	1.82	0.62
18:AC:69:GLN:OE1	18:AC:118:ASN:CB	2.48	0.62
6:BZ:91:ILE:HD12	6:BZ:91:ILE:O	2.00	0.62
12:Bf:726:ILE:HG13	12:Bf:764:LEU:HD22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BE:350:ALA:HB1	16:BE:367:PHE:CD1	2.35	0.62
17:BF:97:LEU:HD12	17:BF:120:LYS:HG3	1.82	0.62
18:BC:313:ARG:NH1	18:BC:314:LYS:O	2.32	0.62
21:BI:143:TYR:HB2	21:BI:146:GLN:HE21	1.64	0.62
24:BL:109:VAL:HG21	24:BL:145:PHE:HD2	1.64	0.62
1:AU:505:ASP:HB3	1:AU:508:THR:HG22	1.82	0.62
9:Ac:154:LYS:NZ	15:AD:81:ARG:CZ	2.63	0.62
14:AB:343:ARG:HA	14:AB:347:ILE:HD13	1.81	0.62
30:AR:169:TYR:CD2	28:BP:32:ALA:CB	2.83	0.62
3:BW:219:THR:HG22	3:BW:222:LEU:H	1.64	0.62
12:Bf:326:LEU:O	12:Bf:330:PHE:CB	2.48	0.62
13:BA:190:VAL:HG11	13:BA:212:VAL:HG11	1.82	0.62
15:BD:247:VAL:HG21	15:BD:288:ILE:HG23	1.82	0.62
16:BE:128:GLY:O	16:BE:189:SER:OG	2.15	0.62
16:BE:327:ASP:N	16:BE:364:GLN:OE1	2.27	0.62
23:BK:232:GLU:H	23:BK:235:GLU:HG3	1.65	0.62
2:AV:224:LEU:HD12	2:AV:228:ARG:HG3	1.80	0.62
4:AX:384:VAL:HB	5:AY:312:ARG:HH22	1.65	0.62
5:AY:190:ALA:O	5:AY:291:HIS:NE2	2.26	0.62
6:AZ:144:VAL:HG12	6:AZ:145:HIS:H	1.64	0.62
7:Aa:125:ILE:N	7:Aa:126:GLY:HA2	2.15	0.62
14:AB:295:TYR:HB3	14:AB:299:SER:HB3	1.82	0.62
14:AB:334:ILE:HD12	14:AB:337:LEU:HD12	1.82	0.62
15:AD:136:SER:O	18:AC:66:LEU:HD23	2.00	0.62
18:AC:78:ARG:HB3	18:AC:86:LEU:HD12	1.82	0.62
27:AO:199:LEU:CD2	31:BS:174:LEU:O	2.37	0.62
6:BZ:54:PHE:HB3	6:BZ:82:PHE:HE2	1.63	0.62
18:BC:297:ARG:HG3	18:BC:298:ILE:H	1.65	0.62
22:BJ:73:PHE:HA	22:BJ:131:ALA:HA	1.81	0.62
24:BL:15:PRO:O	25:BM:28:LYS:NZ	2.25	0.62
26:AN:140:ASP:OD2	26:BN:166:ARG:NH2	2.26	0.61
29:AQ:137:PHE:HA	30:BR:134:TYR:CD1	2.34	0.61
32:AT:148:PRO:HB3	27:BO:165:ASN:CG	2.24	0.61
32:AT:153:VAL:HG21	32:AT:168:LEU:HD11	1.82	0.61
4:BX:409:LYS:HE2	9:Bc:260:GLU:HB3	1.80	0.61
5:BY:301:ILE:HD12	5:BY:342:ARG:HB3	1.82	0.61
12:Bf:245:ASN:HA	12:Bf:248:LEU:HB3	1.80	0.61
15:BD:167:ILE:HD11	15:BD:174:LYS:HD3	1.82	0.61
16:BE:65:THR:HG22	16:BE:66:GLU:H	1.65	0.61
18:BC:310:ARG:HB2	18:BC:311:ILE:HG23	1.81	0.61
5:AY:356:THR:OG1	5:AY:357:ASN:O	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:760:PHE:O	12:Af:764:LEU:HB3	2.00	0.61
12:Af:807:ARG:NH2	12:Af:851:ASP:OD1	2.33	0.61
13:AA:316:LYS:O	13:AA:317:VAL:HG13	2.01	0.61
14:AB:426:VAL:HA	14:AB:429:LYS:HB3	1.80	0.61
16:AE:212:ALA:HB2	16:AE:256:THR:HG22	1.81	0.61
16:AE:350:ALA:HB2	16:AE:371:VAL:HG23	1.82	0.61
16:AE:352:MET:HE3	17:AF:350:ARG:HH11	1.64	0.61
20:AH:65:VAL:HG22	20:AH:75:VAL:HG12	1.82	0.61
31:AS:185:ARG:N	27:BO:26:VAL:HG21	2.14	0.61
5:BY:110:TYR:O	5:BY:113:ARG:HB3	2.00	0.61
13:BA:89:SER:C	13:BA:92:PRO:HD2	2.24	0.61
20:BH:4:ARG:HD3	25:BM:127:ALA:HB2	1.82	0.61
22:BJ:115:LYS:HE2	22:BJ:149:PRO:HA	1.82	0.61
14:AB:103:ARG:HG2	14:AB:107:MET:SD	2.40	0.61
17:AF:380:ASN:C	17:AF:382:GLU:H	2.08	0.61
26:AN:14:LEU:HD11	26:AN:101:ALA:HB3	1.81	0.61
29:AQ:166:GLU:OE2	30:BR:141:ARG:HA	1.99	0.61
31:AS:157:ASN:CG	28:BP:172:LEU:HB3	2.24	0.61
5:BY:174:TRP:HB3	18:BC:334:ARG:C	2.25	0.61
6:BZ:170:VAL:HG13	9:Bc:152:LYS:HA	1.83	0.61
13:BA:297:ARG:O	13:BA:301:GLU:CB	2.47	0.61
18:BC:78:ARG:HB3	18:BC:86:LEU:HD12	1.82	0.61
21:BI:2:SER:N	24:BL:123:TYR:HH	1.97	0.61
1:AU:599:ILE:HG23	15:AD:56:VAL:HG21	1.83	0.61
5:AY:357:ASN:HB2	5:AY:358:ARG:HA	1.82	0.61
8:Ab:164:ASP:N	8:Ab:165:GLY:HA2	2.13	0.61
9:Ac:174:PRO:HB2	9:Ac:175:ARG:HD3	1.81	0.61
15:AD:202:VAL:HB	15:AD:308:ILE:HA	1.81	0.61
18:AC:213:ARG:NH2	18:AC:249:ASP:OD1	2.32	0.61
18:AC:217:SER:HB3	18:AC:218:GLU:CB	2.25	0.61
31:AS:114:ASP:OD1	31:AS:118:LYS:N	2.28	0.61
4:BX:384:VAL:HB	5:BY:312:ARG:HH22	1.65	0.61
20:BH:65:VAL:HG22	20:BH:75:VAL:HG12	1.82	0.61
25:BM:55:SER:H	25:BM:57:LEU:HG	1.63	0.61
2:AV:318:GLN:O	2:AV:319:HIS:ND1	2.33	0.61
3:AW:340:VAL:HG22	3:AW:350:ARG:HH11	1.63	0.61
5:AY:17:LEU:HA	5:AY:150:PHE:HE1	1.64	0.61
5:AY:177:ARG:HH12	18:AC:337:ASN:ND2	1.90	0.61
16:AE:152:PRO:HG3	16:AE:159:PHE:HE2	1.66	0.61
17:AF:86:LEU:HB2	17:AF:88:TYR:CZ	2.35	0.61
20:AH:118:MET:HE2	20:AH:151:PRO:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AL:212:ILE:HD13	24:AL:229:VAL:HG11	1.83	0.61
1:BU:615:ARG:HH21	1:BU:645:ASN:HD21	1.49	0.61
2:BV:173:ILE:O	2:BV:177:ASN:ND2	2.32	0.61
4:BX:346:GLN:HE21	4:BX:349:HIS:HB2	1.64	0.61
12:Bf:838:ARG:HB2	12:Bf:839:PRO:HD3	1.82	0.61
15:BD:136:SER:O	18:BC:66:LEU:HD23	2.00	0.61
16:BE:350:ALA:HB2	16:BE:371:VAL:HG23	1.83	0.61
29:BQ:140:LEU:O	29:BQ:144:ASP:HB2	2.00	0.61
3:AW:219:THR:HG22	3:AW:222:LEU:H	1.64	0.61
4:AX:346:GLN:HE21	4:AX:349:HIS:HB2	1.64	0.61
9:Ac:100:LYS:HA	9:Ac:105:PRO:HB3	1.82	0.61
12:Af:300:ARG:HB3	12:Af:303:VAL:HG12	1.83	0.61
12:Af:427:THR:HB	12:Af:815:HIS:CD2	2.35	0.61
12:Af:759:LEU:O	12:Af:763:ARG:CB	2.44	0.61
14:AB:250:VAL:HG21	14:AB:270:LEU:HD22	1.82	0.61
22:AJ:73:PHE:HA	22:AJ:131:ALA:HA	1.82	0.61
28:AP:32:ALA:CB	30:BR:169:TYR:CD2	2.83	0.61
28:AP:172:LEU:HB3	31:BS:157:ASN:CG	2.26	0.61
29:AQ:145:ARG:N	30:BR:162:GLN:NE2	2.48	0.61
2:BV:89:LYS:HD3	2:BV:92:ARG:HH11	1.65	0.61
12:Bf:460:ASP:OD1	12:Bf:461:PRO:HD3	1.99	0.61
12:Bf:691:PRO:HB3	12:Bf:710:LEU:HD21	1.83	0.61
17:BF:380:ASN:C	17:BF:382:GLU:H	2.08	0.61
19:BG:125:TYR:HA	19:BG:131:MET:SD	2.41	0.61
21:BI:38:LEU:HG	21:BI:160:LYS:HB3	1.82	0.61
30:BR:21:THR:HG22	30:BR:27:ALA:H	1.65	0.61
31:BS:57:PHE:HD2	31:BS:60:ASP:H	1.48	0.61
3:AW:171:VAL:HG11	15:AD:392:TYR:OH	1.99	0.61
3:AW:241:LEU:HA	3:AW:244:CYS:SG	2.41	0.61
13:AA:397:ILE:O	13:AA:400:ARG:NH1	2.34	0.61
21:AI:38:LEU:HG	21:AI:160:LYS:HB3	1.82	0.61
22:AJ:116:GLN:HE21	23:AK:83:ALA:HB3	1.66	0.61
2:BV:157:THR:OG1	2:BV:158:PRO:HD3	2.00	0.61
2:BV:318:GLN:O	2:BV:319:HIS:ND1	2.33	0.61
12:Bf:427:THR:HB	12:Bf:815:HIS:CD2	2.35	0.61
13:BA:330:ALA:HA	13:BA:333:ARG:HG2	1.81	0.61
18:BC:325:ARG:O	18:BC:329:LEU:HB3	2.01	0.61
1:AU:353:LEU:HD13	1:AU:385:PHE:HZ	1.66	0.61
2:AV:281:ASN:H	2:AV:284:GLU:HB3	1.66	0.61
12:Af:221:ILE:HA	12:Af:224:ASN:HB3	1.83	0.61
12:Af:629:LYS:HE3	12:Af:655:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AD:167:ILE:HD11	15:AD:174:LYS:HD3	1.82	0.61
18:AC:297:ARG:HG3	18:AC:298:ILE:H	1.65	0.61
20:AH:15:PRO:HA	21:AI:23:TYR:CE1	2.36	0.61
21:AI:122:THR:O	22:AJ:125:ARG:NH1	2.34	0.61
22:AJ:115:LYS:HE2	22:AJ:149:PRO:HA	1.82	0.61
29:AQ:140:LEU:O	29:AQ:144:ASP:CB	2.48	0.61
32:AT:99:ARG:HG3	32:AT:105:PRO:HA	1.82	0.61
6:BZ:63:LYS:HB2	6:BZ:64:ASP:HB2	1.83	0.61
9:Bc:100:LYS:HA	9:Bc:105:PRO:HB3	1.82	0.61
9:Bc:154:LYS:NZ	15:BD:81:ARG:CZ	2.63	0.61
13:BA:201:PHE:HE1	17:BF:408:LEU:HD22	1.66	0.61
16:BE:352:MET:HE3	17:BF:350:ARG:HH11	1.64	0.61
1:AU:615:ARG:HH21	1:AU:645:ASN:HD21	1.49	0.61
6:AZ:91:ILE:HD12	6:AZ:91:ILE:O	2.00	0.61
6:AZ:210:SER:O	6:AZ:214:LYS:HG2	2.01	0.61
12:Af:691:PRO:HB3	12:Af:710:LEU:HD21	1.83	0.61
16:AE:65:THR:HG22	16:AE:66:GLU:H	1.65	0.61
19:AG:125:TYR:HA	19:AG:131:MET:SD	2.41	0.61
2:BV:241:ARG:HG3	2:BV:242:HIS:H	1.66	0.61
13:BA:324:PRO:HD2	13:BA:432:TYR:HB2	1.82	0.61
16:BE:178:THR:HG23	34:BE:401:ATP:C8	2.36	0.61
16:BE:269:THR:OG1	16:BE:271:HIS:ND1	2.32	0.61
21:BI:235:GLN:O	21:BI:239:LYS:HB2	2.01	0.61
3:AW:135:LYS:HG2	15:AD:390:ASN:O	2.01	0.61
13:AA:381:THR:OG1	14:AB:343:ARG:NH1	2.33	0.61
14:AB:298:ASN:HD22	16:AE:246:GLY:HA2	1.64	0.61
14:AB:391:SER:OG	18:AC:310:ARG:NH2	2.34	0.61
1:BU:74:PHE:HB3	1:BU:103:LYS:HE3	1.83	0.61
1:BU:353:LEU:HD13	1:BU:385:PHE:HZ	1.66	0.61
1:BU:505:ASP:HB3	1:BU:508:THR:HG22	1.82	0.61
1:BU:599:ILE:HG23	15:BD:56:VAL:HG21	1.83	0.61
3:BW:241:LEU:HA	3:BW:244:CYS:SG	2.41	0.61
6:BZ:201:LEU:HD13	7:Ba:361:LYS:HG3	1.83	0.61
7:Ba:125:ILE:N	7:Ba:126:GLY:HA2	2.15	0.61
9:Bc:174:PRO:HB2	9:Bc:175:ARG:HH11	1.66	0.61
12:Bf:807:ARG:NH2	12:Bf:851:ASP:OD1	2.33	0.61
12:Bf:844:VAL:HG23	12:Bf:845:ARG:H	1.66	0.61
13:BA:316:LYS:O	13:BA:317:VAL:HG13	2.01	0.61
14:BB:103:ARG:HG2	14:BB:107:MET:SD	2.40	0.61
18:BC:332:HIS:CD2	18:BC:360:LYS:HG2	2.36	0.61
19:BG:163:PHE:CD1	20:BH:57:TYR:HA	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BL:107:ARG:HH21	32:BT:77:LEU:HD12	1.66	0.61
24:BL:183:ASN:ND2	24:BL:186:GLU:OE2	2.34	0.61
24:BL:212:ILE:HD13	24:BL:229:VAL:HG11	1.83	0.61
5:AY:174:TRP:HB3	18:AC:334:ARG:C	2.25	0.60
6:AZ:63:LYS:HB2	6:AZ:64:ASP:HB2	1.82	0.60
6:AZ:170:VAL:HG13	9:Ac:152:LYS:HA	1.83	0.60
13:AA:299:MET:HG3	13:AA:300:LEU:H	1.66	0.60
15:AD:100:THR:HB	15:AD:114:ARG:HD2	1.83	0.60
16:AE:178:THR:HG23	34:AE:401:ATP:C8	2.36	0.60
16:AE:350:ALA:HB1	16:AE:367:PHE:CD1	2.35	0.60
12:Bf:629:LYS:HE3	12:Bf:655:LEU:HD22	1.83	0.60
15:BD:202:VAL:HB	15:BD:308:ILE:HA	1.81	0.60
16:BE:152:PRO:HG3	16:BE:159:PHE:HE2	1.66	0.60
17:BF:358:ASN:O	17:BF:362:ARG:N	2.29	0.60
18:BC:166:GLU:OE1	18:BC:170:LYS:NZ	2.27	0.60
27:BO:163:ILE:HG23	27:BO:170:GLY:HA2	1.82	0.60
12:Af:326:LEU:O	12:Af:330:PHE:CB	2.48	0.60
13:AA:330:ALA:HA	13:AA:333:ARG:HG2	1.81	0.60
20:AH:4:ARG:HD3	25:AM:127:ALA:HB2	1.82	0.60
3:BW:135:LYS:HG2	15:BD:390:ASN:O	2.01	0.60
12:Bf:221:ILE:HA	12:Bf:224:ASN:HB3	1.83	0.60
14:BB:110:GLY:HA3	14:BB:152:LEU:HD13	1.82	0.60
14:BB:178:LYS:HD2	18:BC:283:PHE:HA	1.83	0.60
14:BB:295:TYR:HB3	14:BB:299:SER:HB3	1.82	0.60
15:BD:100:THR:HB	15:BD:114:ARG:HD2	1.83	0.60
17:BF:230:GLY:H	17:BF:392:ASN:HB3	1.65	0.60
20:BH:15:PRO:HA	21:BI:23:TYR:CE1	2.36	0.60
6:AZ:201:LEU:HD13	7:Aa:361:LYS:HG3	1.83	0.60
17:AF:252:ALA:HB3	17:AF:255:GLN:HG2	1.83	0.60
29:AQ:140:LEU:O	29:AQ:144:ASP:HB2	2.00	0.60
31:AS:181:SER:N	27:BO:195:LYS:HZ1	1.94	0.60
2:BV:281:ASN:H	2:BV:284:GLU:HB3	1.66	0.60
4:BX:124:PHE:CD1	20:BH:189:HIS:NE2	2.70	0.60
6:BZ:236:LEU:HD21	7:Ba:335:TRP:CD1	2.37	0.60
14:BB:250:VAL:HG21	14:BB:270:LEU:HD22	1.82	0.60
4:AX:83:ALA:HA	20:AH:229:TYR:CD1	2.35	0.60
13:AA:90:GLU:CG	13:AA:94:GLN:HE22	2.06	0.60
13:AA:201:PHE:HE1	17:AF:408:LEU:HD22	1.66	0.60
15:AD:247:VAL:HG21	15:AD:288:ILE:HG23	1.82	0.60
16:AE:172:LEU:O	16:AE:278:ALA:HA	2.02	0.60
17:AF:230:GLY:H	17:AF:392:ASN:HB3	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AF:356:MET:HE2	17:AF:362:ARG:NH1	2.16	0.60
19:AG:163:PHE:CD1	20:AH:57:TYR:HA	2.36	0.60
24:AL:39:LYS:HD2	24:AL:142:PRO:HB2	1.84	0.60
29:AQ:145:ARG:NH1	30:BR:158:ARG:HG3	2.16	0.60
6:BZ:220:LEU:HB3	6:BZ:221:PRO:HA	1.81	0.60
12:Bf:591:ALA:HB1	12:Bf:838:ARG:HG2	1.83	0.60
13:BA:115:VAL:HG13	13:BA:117:GLN:HB3	1.82	0.60
13:BA:292:ASP:O	13:BA:296:GLN:N	2.23	0.60
13:BA:381:THR:OG1	14:BB:343:ARG:NH1	2.33	0.60
14:BB:334:ILE:HD12	14:BB:337:LEU:HD12	1.82	0.60
14:BB:391:SER:OG	18:BC:310:ARG:NH2	2.34	0.60
22:BJ:116:GLN:HE21	23:BK:83:ALA:HB3	1.66	0.60
2:AV:157:THR:OG1	2:AV:158:PRO:HD3	2.00	0.60
15:AD:276:ASP:O	15:AD:280:GLY:N	2.34	0.60
21:AI:235:GLN:O	21:AI:239:LYS:HB2	2.01	0.60
1:BU:252:LEU:HD21	1:BU:264:VAL:HG11	1.84	0.60
18:BC:209:CYS:HB3	18:BC:243:PRO:HG2	1.82	0.60
5:AY:174:TRP:CB	18:AC:334:ARG:O	2.49	0.60
9:Ac:46:ARG:CG	16:AE:85:ARG:HH22	2.05	0.60
14:AB:178:LYS:HD2	18:AC:283:PHE:HA	1.83	0.60
15:AD:323:ARG:NH1	15:AD:324:PRO:O	2.34	0.60
17:AF:314:LEU:O	17:AF:318:ASP:HB2	2.01	0.60
27:AO:200:GLY:HA3	31:BS:173:ARG:HD3	1.84	0.60
7:Ba:235:ASP:OD2	7:Ba:249:GLN:NE2	2.34	0.60
9:Bc:249:LEU:HD21	9:Bc:297:VAL:HG11	1.84	0.60
17:BF:356:MET:HE2	17:BF:362:ARG:NH1	2.16	0.60
18:AC:332:HIS:CD2	18:AC:360:LYS:HG2	2.36	0.60
27:AO:199:LEU:HD23	31:BS:176:LYS:H	1.66	0.60
28:AP:173:ASN:ND2	31:BS:157:ASN:HB2	2.17	0.60
1:BU:203:LYS:O	1:BU:207:ASN:ND2	2.31	0.60
6:BZ:210:SER:O	6:BZ:214:LYS:HG2	2.01	0.60
15:BD:323:ARG:NH1	15:BD:324:PRO:O	2.34	0.60
25:BM:181:MET:HG3	25:BM:182:LYS:HD2	1.83	0.60
29:BQ:43:LEU:HG	29:BQ:183:ILE:HD11	1.82	0.60
31:BS:28:ARG:NH1	31:BS:187:VAL:O	2.35	0.60
32:BT:97:TYR:HA	32:BT:100:ARG:HG2	1.83	0.60
4:AX:124:PHE:CD1	20:AH:189:HIS:NE2	2.70	0.60
12:Af:445:LEU:HD13	12:Af:475:ASN:HD22	1.66	0.60
14:AB:100:ASP:O	14:AB:103:ARG:NH2	2.35	0.60
15:AD:193:GLN:HB3	18:AC:376:VAL:HG23	1.82	0.60
18:AC:209:CYS:HB3	18:AC:243:PRO:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AH:92:LYS:HG2	27:AO:65:LEU:HD21	1.83	0.60
27:AO:195:LYS:HZ1	31:BS:181:SER:N	1.92	0.60
29:AQ:43:LEU:HG	29:AQ:183:ILE:HD11	1.82	0.60
9:Bc:243:SER:H	9:Bc:245:VAL:H	1.50	0.60
15:BD:150:SER:OG	15:BD:151:ILE:N	2.34	0.60
5:AY:301:ILE:HD12	5:AY:342:ARG:HB3	1.82	0.60
6:AZ:236:LEU:HD21	7:Aa:335:TRP:CD1	2.37	0.60
7:Aa:122:LYS:HE3	7:Aa:134:THR:HG21	1.84	0.60
14:AB:250:VAL:HG13	14:AB:255:LEU:HD22	1.84	0.60
24:AL:62:LYS:NZ	24:AL:75:ALA:HA	2.17	0.60
25:AM:181:MET:HG3	25:AM:182:LYS:HD2	1.83	0.60
27:AO:163:ILE:HG23	27:AO:170:GLY:HA2	1.82	0.60
30:AR:158:ARG:HG3	29:BQ:145:ARG:NH1	2.17	0.60
1:BU:363:SER:HB3	9:Bc:173:GLU:HB3	1.84	0.60
5:BY:190:ALA:O	5:BY:291:HIS:NE2	2.26	0.60
12:Bf:445:LEU:HD13	12:Bf:475:ASN:HD22	1.66	0.60
12:Bf:589:SER:HA	12:Bf:592:ASN:HB3	1.84	0.60
15:BD:44:TYR:HA	18:BC:25:LEU:HD11	1.84	0.60
15:BD:276:ASP:O	15:BD:280:GLY:N	2.34	0.60
17:BF:86:LEU:HB2	17:BF:88:TYR:CZ	2.35	0.60
9:Ac:243:SER:H	9:Ac:245:VAL:H	1.50	0.60
12:Af:441:LYS:HZ1	12:Af:445:LEU:HD23	1.66	0.60
12:Af:844:VAL:HG23	12:Af:845:ARG:H	1.66	0.60
31:AS:143:ALA:HB3	28:BP:144:GLU:HG3	1.83	0.60
32:AT:148:PRO:HB3	27:BO:165:ASN:HD21	1.67	0.60
1:BU:842:LYS:HG2	1:BU:882:ALA:HB2	1.84	0.60
12:Bf:760:PHE:O	12:Bf:764:LEU:HB3	2.00	0.60
24:BL:62:LYS:NZ	24:BL:75:ALA:HA	2.17	0.60
2:AV:224:LEU:HB2	2:AV:227:VAL:HB	1.84	0.59
13:AA:94:GLN:C	13:AA:96:ALA:H	2.10	0.59
13:AA:324:PRO:HD2	13:AA:432:TYR:HB2	1.82	0.59
15:AD:44:TYR:HA	18:AC:25:LEU:HD11	1.84	0.59
17:AF:199:VAL:O	17:AF:203:VAL:HB	2.02	0.59
18:AC:66:LEU:CG	18:AC:70:GLY:HA2	2.26	0.59
18:AC:325:ARG:O	18:AC:329:LEU:HB3	2.01	0.59
24:AL:183:ASN:ND2	24:AL:186:GLU:OE2	2.34	0.59
27:AO:165:ASN:HD21	32:BT:148:PRO:HB3	1.66	0.59
13:BA:397:ILE:O	13:BA:400:ARG:NH1	2.34	0.59
14:BB:223:ILE:HB	14:BB:350:LYS:HB3	1.84	0.59
9:Ac:249:LEU:HD21	9:Ac:297:VAL:HG11	1.84	0.59
12:Af:785:ARG:O	12:Af:789:SER:OG	2.12	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:106:PRO:HB2	14:AB:154:HIS:HE1	1.67	0.59
17:AF:91:SER:OG	17:AF:125:LYS:O	2.20	0.59
25:AM:110:HIS:NE2	26:AN:70:LEU:HD23	2.17	0.59
5:BY:357:ASN:HB2	5:BY:358:ARG:HA	1.82	0.59
12:Bf:300:ARG:HB3	12:Bf:303:VAL:HG12	1.83	0.59
14:BB:100:ASP:O	14:BB:103:ARG:NH2	2.35	0.59
14:BB:220:LYS:NZ	14:BB:344:PRO:O	2.35	0.59
17:BF:314:LEU:O	17:BF:318:ASP:HB2	2.01	0.59
21:BI:49:ARG:NH1	21:BI:63:GLU:HB3	2.17	0.59
1:AU:252:LEU:HD21	1:AU:264:VAL:HG11	1.84	0.59
2:AV:275:VAL:H	2:AV:276:PHE:HA	1.68	0.59
14:AB:110:GLY:HA3	14:AB:152:LEU:HD13	1.82	0.59
15:AD:160:PRO:HG2	15:AD:221:HIS:CD2	2.37	0.59
17:AF:358:ASN:O	17:AF:362:ARG:N	2.29	0.59
27:AO:26:VAL:HG21	31:BS:185:ARG:N	2.16	0.59
28:AP:177:ARG:NH2	31:BS:146:GLN:HB3	2.18	0.59
32:AT:33:LEU:CD1	26:BN:166:ARG:CG	2.79	0.59
2:BV:224:LEU:HB2	2:BV:227:VAL:HB	1.84	0.59
2:BV:290:TYR:OH	2:BV:294:ARG:NH2	2.35	0.59
4:BX:122:ARG:HH21	20:BH:185:GLU:CG	2.00	0.59
6:BZ:106:ILE:HD11	6:BZ:153:LYS:HB3	1.85	0.59
10:Bd:215:TRP:CG	10:Bd:216:VAL:H	2.20	0.59
14:BB:250:VAL:HG13	14:BB:255:LEU:HD22	1.84	0.59
16:BE:172:LEU:O	16:BE:278:ALA:HA	2.02	0.59
20:BH:92:LYS:HG2	27:BO:65:LEU:HD21	1.83	0.59
21:BI:95:GLN:HE22	21:BI:98:LEU:HD23	1.67	0.59
21:BI:122:THR:O	22:BJ:125:ARG:NH1	2.34	0.59
2:AV:241:ARG:HG3	2:AV:242:HIS:H	1.66	0.59
12:Af:292:LYS:HG3	12:Af:296:PHE:CD2	2.38	0.59
13:AA:115:VAL:HG13	13:AA:117:GLN:HB3	1.82	0.59
17:AF:86:LEU:O	17:AF:154:ASN:CG	2.46	0.59
26:AN:67:SER:HA	26:AN:70:LEU:HD12	1.84	0.59
31:AS:28:ARG:NH1	31:AS:187:VAL:O	2.35	0.59
2:BV:451:ILE:HG13	2:BV:458:VAL:HG13	1.85	0.59
15:BD:193:GLN:HB3	18:BC:376:VAL:HG23	1.82	0.59
25:BM:8:ASP:O	25:BM:22:GLN:NE2	2.26	0.59
1:AU:74:PHE:HB3	1:AU:103:LYS:HE3	1.83	0.59
6:AZ:106:ILE:HD11	6:AZ:153:LYS:HB3	1.85	0.59
6:AZ:207:ASP:O	6:AZ:210:SER:OG	2.11	0.59
10:Ad:215:TRP:CH2	10:Ad:222:TYR:HB3	2.38	0.59
12:Af:586:PRO:O	12:Af:623:LYS:NZ	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AR:168:ALA:O	28:BP:179:ALA:HB1	2.02	0.59
32:AT:97:TYR:HA	32:AT:100:ARG:HG2	1.83	0.59
5:BY:356:THR:OG1	5:BY:357:ASN:O	2.14	0.59
6:BZ:215:VAL:HG11	7:Ba:346:ILE:HG21	1.85	0.59
9:Bc:63:ASP:OD1	9:Bc:66:THR:OG1	2.21	0.59
10:Bd:233:GLU:CB	10:Bd:235:THR:HG23	2.32	0.59
13:BA:299:MET:HG3	13:BA:300:LEU:H	1.66	0.59
14:BB:106:PRO:HB2	14:BB:154:HIS:HE1	1.67	0.59
17:BF:199:VAL:O	17:BF:203:VAL:HB	2.02	0.59
17:BF:252:ALA:HB3	17:BF:255:GLN:HG2	1.83	0.59
19:BG:164:LYS:NZ	20:BH:56:LEU:O	2.33	0.59
24:BL:204:ASP:HB3	24:BL:205:LEU:C	2.27	0.59
25:BM:110:HIS:NE2	26:BN:70:LEU:HD23	2.17	0.59
5:AY:63:TRP:HB3	5:AY:64:GLN:HB3	1.85	0.59
9:Ac:63:ASP:OD1	9:Ac:66:THR:OG1	2.21	0.59
17:AF:126:THR:OG1	17:AF:130:GLN:N	2.35	0.59
10:Bd:215:TRP:CH2	10:Bd:222:TYR:HB3	2.38	0.59
16:BE:138:LEU:HD22	16:BE:141:GLN:HG3	1.85	0.59
16:BE:145:LEU:O	16:BE:149:ILE:HB	2.03	0.59
16:BE:236:ASP:N	16:BE:236:ASP:OD1	2.35	0.59
18:BC:131:VAL:HG13	18:BC:132:ASP:H	1.68	0.59
24:BL:39:LYS:HD2	24:BL:142:PRO:HB2	1.84	0.59
1:AU:842:LYS:HG2	1:AU:882:ALA:HB2	1.84	0.59
2:AV:416:ARG:HB3	5:AY:348:ASP:OD1	2.03	0.59
4:AX:198:ASN:OD1	18:AC:392:GLN:HG3	2.02	0.59
12:Af:591:ALA:HB1	12:Af:838:ARG:HG2	1.83	0.59
31:AS:157:ASN:CG	28:BP:176:ASP:OD2	2.44	0.59
31:AS:175:VAL:C	27:BO:199:LEU:CD2	2.57	0.59
12:Bf:390:LEU:O	12:Bf:394:ASP:CB	2.36	0.59
2:AV:279:GLN:HE21	2:AV:285:TRP:CD1	2.21	0.59
9:Ac:46:ARG:HG3	16:AE:85:ARG:HH21	1.64	0.59
12:Af:617:SER:HB2	12:Af:620:PHE:HA	1.85	0.59
14:AB:223:ILE:HB	14:AB:350:LYS:HB3	1.85	0.59
22:AJ:221:ASN:O	22:AJ:223:GLU:N	2.35	0.59
25:AM:160:TYR:HD2	25:AM:163:CYS:HB2	1.68	0.59
29:AQ:170:ARG:HH11	29:BQ:22:ALA:CB	2.15	0.59
30:AR:199:TYR:CD1	29:BQ:145:ARG:NH1	2.69	0.59
31:AS:157:ASN:HD21	28:BP:172:LEU:C	2.07	0.59
2:BV:279:GLN:HE21	2:BV:285:TRP:CD1	2.21	0.59
12:Bf:739:ALA:HB3	13:BA:169:LYS:HD2	1.85	0.59
25:BM:160:TYR:HD2	25:BM:163:CYS:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:770:TRP:CG	9:Ac:179:SER:HG	2.21	0.59
10:Ad:215:TRP:CG	10:Ad:216:VAL:H	2.20	0.59
12:Af:771:LEU:HD13	12:Af:819:TYR:CE1	2.37	0.59
28:AP:125:ASP:HB2	28:AP:129:CYS:HB3	1.85	0.59
29:AQ:22:ALA:CB	29:BQ:170:ARG:HH11	2.16	0.59
32:AT:209:TRP:CH2	26:BN:172:GLY:HA2	2.38	0.59
4:BX:83:ALA:HA	20:BH:229:TYR:CD1	2.35	0.59
6:BZ:22:HIS:HA	6:BZ:25:ARG:HG2	1.84	0.59
21:BI:69:ASN:OD1	21:BI:70:GLU:N	2.36	0.59
22:BJ:221:ASN:O	22:BJ:223:GLU:N	2.36	0.59
3:AW:187:LEU:HA	3:AW:190:MET:HE3	1.85	0.59
18:AC:84:LYS:HE3	18:AC:96:VAL:HG22	1.85	0.59
21:AI:69:ASN:OD1	21:AI:70:GLU:N	2.36	0.59
21:AI:106:PRO:HD2	21:AI:109:GLN:HE21	1.67	0.59
26:AN:172:GLY:HA2	32:BT:209:TRP:CH2	2.37	0.59
30:AR:133:VAL:HG23	29:BQ:137:PHE:CB	2.30	0.59
30:AR:162:GLN:NE2	29:BQ:145:ARG:N	2.51	0.59
1:BU:14:GLU:O	1:BU:20:LYS:NZ	2.36	0.59
2:BV:275:VAL:H	2:BV:276:PHE:HA	1.68	0.59
12:Bf:292:LYS:HG3	12:Bf:296:PHE:CD2	2.38	0.59
15:BD:336:PRO:O	15:BD:341:LYS:NZ	2.34	0.59
16:BE:212:ALA:HB1	16:BE:259:GLU:HG3	1.83	0.59
18:BC:84:LYS:HE3	18:BC:96:VAL:HG22	1.85	0.59
21:BI:140:ASP:OD1	21:BI:144:GLY:N	2.36	0.59
24:BL:201:ALA:HA	24:BL:239:ARG:HH11	1.68	0.59
6:AZ:215:VAL:HG11	7:Aa:346:ILE:HG21	1.85	0.58
10:Ad:233:GLU:CB	10:Ad:235:THR:HG23	2.32	0.58
12:Bf:453:SER:O	12:Bf:457:ASN:ND2	2.35	0.58
15:BD:286:GLN:NE2	18:BC:218:GLU:OE2	2.36	0.58
20:BH:4:ARG:HH22	25:BM:125:TYR:HB3	1.68	0.58
23:BK:50:VAL:HG11	23:BK:66:LYS:HB2	1.85	0.58
7:Aa:235:ASP:OD2	7:Aa:249:GLN:NE2	2.34	0.58
12:Af:739:ALA:HB3	13:AA:169:LYS:HD2	1.85	0.58
14:AB:402:ALA:HB1	14:AB:414:VAL:HG11	1.84	0.58
16:AE:56:ILE:HG23	16:AE:100:LEU:HB2	1.85	0.58
16:AE:212:ALA:HB1	16:AE:259:GLU:HG3	1.83	0.58
18:AC:299:ASP:HA	18:AC:302:ASP:HB3	1.85	0.58
21:AI:95:GLN:HE22	21:AI:98:LEU:HD23	1.67	0.58
21:AI:140:ASP:OD1	21:AI:144:GLY:N	2.36	0.58
29:AQ:196:PHE:HB3	29:BQ:198:LYS:CB	2.33	0.58
30:AR:134:TYR:CD1	29:BQ:137:PHE:CA	2.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:416:ARG:HB3	5:BY:348:ASP:OD1	2.03	0.58
17:BF:305:GLU:HB3	17:BF:308:ARG:NH2	2.19	0.58
24:BL:117:GLN:O	24:BL:120:THR:OG1	2.14	0.58
2:AV:97:ALA:HB3	2:AV:98:LEU:HA	1.85	0.58
9:Ac:281:LYS:HB3	9:Ac:283:HIS:CD2	2.38	0.58
12:Af:759:LEU:HD13	12:Af:759:LEU:H	1.68	0.58
14:AB:193:GLN:HG2	14:AB:237:LYS:HZ1	1.68	0.58
15:AD:286:GLN:NE2	18:AC:218:GLU:OE2	2.36	0.58
24:AL:157:ARG:NH2	25:AM:56:LYS:HZ3	2.01	0.58
28:AP:205:ASP:C	30:BR:19:ARG:HH22	2.10	0.58
3:BW:136:ILE:CD1	15:BD:392:TYR:CD1	2.84	0.58
14:BB:175:LYS:HB3	14:BB:176:VAL:HB	1.85	0.58
17:BF:224:LEU:HB3	17:BF:351:LYS:HG2	1.84	0.58
1:AU:363:SER:HB3	9:Ac:173:GLU:HB3	1.84	0.58
2:AV:290:TYR:OH	2:AV:294:ARG:NH2	2.35	0.58
3:AW:136:ILE:HD11	16:AE:161:ARG:CZ	2.34	0.58
9:Ac:174:PRO:HB2	9:Ac:175:ARG:HH11	1.66	0.58
20:AH:4:ARG:HH22	25:AM:125:TYR:HB3	1.68	0.58
24:AL:107:ARG:HH21	32:AT:77:LEU:HD12	1.66	0.58
1:BU:188:MET:HG2	1:BU:194:ARG:HD3	1.86	0.58
12:Bf:495:GLU:HG3	12:Bf:496:ASP:H	1.68	0.58
12:Bf:595:VAL:HG21	12:Bf:834:ASP:OD1	2.04	0.58
13:BA:94:GLN:C	13:BA:96:ALA:H	2.11	0.58
15:BD:160:PRO:HG2	15:BD:221:HIS:CD2	2.37	0.58
17:BF:126:THR:OG1	17:BF:130:GLN:N	2.35	0.58
17:BF:181:PRO:HD2	17:BF:242:ALA:HB2	1.86	0.58
21:BI:184:MET:HA	21:BI:185:THR:C	2.28	0.58
1:AU:603:LEU:HD21	15:AD:60:TYR:HD1	1.68	0.58
12:Af:595:VAL:HG21	12:Af:834:ASP:OD1	2.04	0.58
17:AF:197:GLU:OE2	17:AF:350:ARG:NH2	2.36	0.58
18:AC:89:VAL:HG12	18:AC:91:PRO:HD2	1.86	0.58
19:AG:30:LYS:NZ	25:AM:16:PRO:O	2.25	0.58
27:AO:195:LYS:HE3	31:BS:180:ILE:CA	2.31	0.58
30:AR:166:ARG:NH2	28:BP:33:GLN:O	2.36	0.58
32:AT:179:ARG:HA	26:BN:26:ILE:CG2	2.27	0.58
3:BW:45:GLU:HB2	3:BW:93:ARG:HG3	1.85	0.58
12:Bf:774:GLY:HA2	12:Bf:778:LEU:N	2.19	0.58
12:Bf:785:ARG:O	12:Bf:789:SER:OG	2.12	0.58
17:BF:431:LYS:HB2	17:BF:432:LYS:HB2	1.85	0.58
21:BI:106:PRO:HD2	21:BI:109:GLN:HE21	1.67	0.58
2:AV:451:ILE:HG13	2:AV:458:VAL:HG13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ae:58:ALA:HB3	11:Ae:59:GLU:HA	1.85	0.58
12:Af:453:SER:O	12:Af:457:ASN:ND2	2.35	0.58
12:Af:589:SER:HA	12:Af:592:ASN:HB3	1.84	0.58
17:AF:92:ASN:HB3	17:AF:125:LYS:HB2	1.85	0.58
17:AF:224:LEU:HB3	17:AF:351:LYS:HG2	1.84	0.58
17:AF:431:LYS:HB2	17:AF:432:LYS:HB2	1.85	0.58
18:AC:131:VAL:HG13	18:AC:132:ASP:H	1.68	0.58
21:AI:49:ARG:NH1	21:AI:63:GLU:HB3	2.17	0.58
21:AI:184:MET:HA	21:AI:185:THR:C	2.28	0.58
23:AK:10:ARG:HD3	23:AK:14:THR:HG21	1.86	0.58
24:AL:151:ALA:O	25:AM:85:ARG:NH2	2.37	0.58
1:BU:788:VAL:HG13	1:BU:884:VAL:HG11	1.84	0.58
5:BY:63:TRP:HB3	5:BY:64:GLN:HB3	1.85	0.58
6:BZ:256:GLN:HE22	9:Bc:298:GLN:HB2	1.67	0.58
7:Ba:122:LYS:HE3	7:Ba:134:THR:HG21	1.84	0.58
12:Bf:759:LEU:H	12:Bf:759:LEU:HD13	1.68	0.58
17:BF:86:LEU:O	17:BF:154:ASN:CG	2.46	0.58
6:AZ:212:LEU:HD12	7:Aa:350:LYS:HD2	1.86	0.58
6:AZ:256:GLN:HE22	9:Ac:298:GLN:HB2	1.67	0.58
17:AF:181:PRO:HD2	17:AF:242:ALA:HB2	1.86	0.58
18:AC:198:LEU:HD11	35:AC:501:ADP:H2'	1.85	0.58
29:AQ:137:PHE:CA	30:BR:134:TYR:CD1	2.85	0.58
29:AQ:198:LYS:CB	29:BQ:196:PHE:HB3	2.33	0.58
2:BV:148:ARG:HG3	2:BV:149:PRO:HD3	1.86	0.58
9:Bc:47:ALA:CA	16:BE:85:ARG:NH1	2.64	0.58
11:Be:59:GLU:HB3	11:Be:63:HIS:CE1	2.39	0.58
14:BB:402:ALA:HB1	14:BB:414:VAL:HG11	1.84	0.58
16:BE:179:GLY:N	34:BE:401:ATP:O2A	2.36	0.58
17:BF:197:GLU:OE2	17:BF:350:ARG:NH2	2.36	0.58
23:BK:227:HIS:HA	23:BK:228:MET:C	2.29	0.58
24:BL:151:ALA:O	25:BM:85:ARG:NH2	2.37	0.58
26:BN:67:SER:HA	26:BN:70:LEU:HD12	1.84	0.58
3:AW:236:HIS:ND1	3:AW:237:GLU:OE1	2.36	0.58
12:Af:495:GLU:HG3	12:Af:496:ASP:H	1.68	0.58
13:AA:333:ARG:O	13:AA:337:LEU:N	2.37	0.58
14:AB:144:LEU:HD22	14:AB:162:VAL:HG11	1.86	0.58
17:AF:305:GLU:HB3	17:AF:308:ARG:NH2	2.19	0.58
18:AC:174:LEU:HA	18:AC:177:ALA:HB3	1.86	0.58
21:AI:216:LEU:HD12	21:AI:225:ILE:HG12	1.85	0.58
24:AL:204:ASP:HB3	24:AL:205:LEU:C	2.27	0.58
2:BV:97:ALA:HB3	2:BV:98:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:326:GLN:HB3	2:BV:353:LEU:HD13	1.85	0.58
16:BE:56:ILE:HG23	16:BE:100:LEU:HB2	1.85	0.58
17:BF:92:ASN:HB3	17:BF:125:LYS:HB2	1.85	0.58
18:BC:89:VAL:HG12	18:BC:91:PRO:HD2	1.86	0.58
18:BC:263:SER:O	18:BC:267:SER:HB3	2.03	0.58
2:AV:326:GLN:HB3	2:AV:353:LEU:HD13	1.85	0.58
11:Ae:41:ASP:OD1	11:Ae:42:ASN:N	2.34	0.58
12:Af:549:GLU:HG3	12:Af:554:TYR:HB3	1.85	0.58
14:AB:208:PRO:O	14:AB:212:GLU:HG2	2.04	0.58
21:AI:213:ILE:HB	21:AI:228:LEU:HD21	1.86	0.58
31:AS:174:LEU:C	27:BO:199:LEU:HD23	2.28	0.58
3:BW:236:HIS:ND1	3:BW:237:GLU:OE1	2.36	0.58
4:BX:198:ASN:OD1	18:BC:392:GLN:HG3	2.02	0.58
6:BZ:193:ASN:O	6:BZ:196:HIS:ND1	2.20	0.58
13:BA:206:ILE:HG13	13:BA:207:GLU:H	1.69	0.58
18:BC:69:GLN:HG2	18:BC:118:ASN:CB	2.32	0.58
21:BI:216:LEU:HD12	21:BI:225:ILE:HG12	1.85	0.58
23:BK:215:ILE:HD12	23:BK:234:LEU:HD11	1.86	0.58
29:BQ:38:MET:HE1	29:BQ:60:ILE:HG22	1.85	0.58
5:AY:203:ASP:N	5:AY:203:ASP:OD1	2.36	0.58
6:AZ:22:HIS:HA	6:AZ:25:ARG:HG2	1.84	0.58
7:Aa:54:ASP:HA	7:Aa:57:ILE:HG22	1.86	0.58
13:AA:205:GLY:HA2	13:AA:206:ILE:HG22	1.86	0.58
18:AC:163:GLU:O	18:AC:167:LEU:HB2	2.04	0.58
1:BU:96:TYR:O	1:BU:100:ILE:HG12	2.04	0.58
12:Bf:771:LEU:HD13	12:Bf:819:TYR:CE1	2.37	0.58
23:BK:11:GLY:C	23:BK:13:ASN:H	2.12	0.58
1:AU:188:MET:HG2	1:AU:194:ARG:HD3	1.86	0.57
1:AU:643:SER:O	1:AU:649:ARG:NH1	2.37	0.57
15:AD:136:SER:O	18:AC:66:LEU:CD2	2.52	0.57
15:AD:150:SER:OG	15:AD:151:ILE:N	2.34	0.57
28:AP:144:GLU:HG3	31:BS:143:ALA:HB3	1.86	0.57
31:AS:157:ASN:HB3	28:BP:172:LEU:CB	2.34	0.57
5:BY:174:TRP:CB	18:BC:334:ARG:O	2.49	0.57
13:BA:100:LYS:HE2	13:BA:113:ILE:HD13	1.86	0.57
18:BC:171:HIS:O	18:BC:173:GLU:N	2.37	0.57
21:BI:213:ILE:HB	21:BI:228:LEU:HD21	1.86	0.57
24:BL:52:ALA:HB2	24:BL:59:HIS:HA	1.86	0.57
28:BP:125:ASP:HB2	28:BP:129:CYS:HB3	1.85	0.57
3:AW:48:LEU:HB2	3:AW:96:GLN:OE1	2.03	0.57
11:Ae:59:GLU:HB3	11:Ae:63:HIS:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:242:GLU:O	12:Af:246:SER:OG	2.21	0.57
12:Af:314:TYR:HA	12:Af:343:LYS:HE2	1.86	0.57
15:AD:159:LYS:HB3	15:AD:160:PRO:HA	1.87	0.57
15:AD:283:ARG:HG3	15:AD:286:GLN:HE21	1.69	0.57
19:AG:128:ASN:HB3	19:AG:131:MET:HG2	1.86	0.57
26:AN:166:ARG:NH2	26:BN:140:ASP:OD2	2.24	0.57
28:AP:12:MET:HG3	28:AP:138:VAL:HG12	1.86	0.57
28:AP:49:LEU:HG	28:AP:111:GLY:HA3	1.85	0.57
30:AR:19:ARG:HH22	28:BP:205:ASP:C	2.12	0.57
31:AS:159:GLN:CB	27:BO:208:THR:OG1	2.52	0.57
1:BU:603:LEU:HD21	15:BD:60:TYR:HD1	1.68	0.57
7:Ba:54:ASP:HA	7:Ba:57:ILE:HG22	1.86	0.57
9:Bc:281:LYS:HB3	9:Bc:283:HIS:CD2	2.38	0.57
12:Bf:278:VAL:O	12:Bf:282:PHE:HB3	2.04	0.57
22:BJ:96:LEU:HA	29:BQ:62:LYS:HE2	1.86	0.57
28:BP:49:LEU:HG	28:BP:111:GLY:HA3	1.86	0.57
1:AU:14:GLU:O	1:AU:20:LYS:NZ	2.36	0.57
17:AF:204:LEU:HD13	17:AF:212:PHE:CZ	2.39	0.57
18:AC:119:ASP:OD1	18:AC:119:ASP:N	2.37	0.57
18:AC:197:THR:HG23	18:AC:213:ARG:HH12	1.68	0.57
23:AK:50:VAL:HG11	23:AK:66:LYS:HB2	1.85	0.57
29:AQ:38:MET:HE1	29:AQ:60:ILE:HG22	1.85	0.57
3:BW:48:LEU:HB2	3:BW:96:GLN:OE1	2.03	0.57
12:Bf:300:ARG:HG3	12:Bf:303:VAL:H	1.70	0.57
14:BB:224:LEU:N	14:BB:329:MET:O	2.36	0.57
16:BE:128:GLY:HA2	16:BE:129:ASN:HB2	1.86	0.57
18:BC:299:ASP:HA	18:BC:302:ASP:HB3	1.85	0.57
13:AA:214:LEU:N	13:AA:319:MET:O	2.32	0.57
16:AE:138:LEU:HD22	16:AE:141:GLN:HG3	1.85	0.57
17:AF:97:LEU:HD12	17:AF:120:LYS:HG3	1.82	0.57
18:AC:263:SER:O	18:AC:267:SER:HB3	2.03	0.57
23:AK:225:ASN:HB2	23:AK:226:PHE:CG	2.39	0.57
26:AN:144:ARG:NH2	26:AN:151:GLU:OE1	2.38	0.57
30:AR:55:TRP:NE1	31:AS:97:TYR:OH	2.38	0.57
32:AT:144:TYR:HB3	27:BO:132:LEU:HD12	1.86	0.57
3:BW:137:TYR:HB3	3:BW:140:ILE:HD12	1.87	0.57
23:BK:10:ARG:HD3	23:BK:14:THR:HG21	1.86	0.57
5:AY:79:ASP:HA	5:AY:82:LYS:HG2	1.87	0.57
7:Aa:14:SER:HB2	7:Aa:18:GLN:CG	2.30	0.57
9:Ac:191:ALA:C	9:Ac:194:HIS:HD1	2.13	0.57
14:AB:210:TYR:O	14:AB:214:MET:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AG:164:LYS:NZ	20:AH:56:LEU:O	2.33	0.57
28:AP:2:SER:OG	28:AP:3:ILE:N	2.38	0.57
30:AR:141:ARG:CA	29:BQ:166:GLU:OE2	2.53	0.57
7:Ba:97:LEU:HD22	7:Ba:118:ILE:HG13	1.85	0.57
11:Be:58:ALA:HB3	11:Be:59:GLU:HA	1.85	0.57
13:BA:214:LEU:N	13:BA:319:MET:O	2.32	0.57
15:BD:283:ARG:HG3	15:BD:286:GLN:HE21	1.69	0.57
16:BE:195:PHE:HD1	16:BE:229:ILE:HB	1.70	0.57
1:AU:96:TYR:O	1:AU:100:ILE:HG12	2.04	0.57
1:AU:759:SER:HA	1:AU:782:ALA:HA	1.86	0.57
2:AV:82:LEU:O	2:AV:87:SER:OG	2.23	0.57
3:AW:416:GLN:HB3	3:AW:417:ARG:CA	2.35	0.57
13:AA:425:ALA:C	13:AA:427:PRO:HD3	2.30	0.57
14:AB:220:LYS:NZ	14:AB:344:PRO:O	2.35	0.57
16:AE:145:LEU:O	16:AE:149:ILE:HB	2.03	0.57
16:AE:179:GLY:N	34:AE:401:ATP:O2A	2.36	0.57
18:AC:171:HIS:O	18:AC:173:GLU:N	2.37	0.57
23:AK:227:HIS:HA	23:AK:228:MET:C	2.29	0.57
29:AQ:164:LEU:HB3	29:AQ:196:PHE:HZ	1.69	0.57
3:BW:136:ILE:HD11	16:BE:161:ARG:CZ	2.34	0.57
3:BW:187:LEU:HA	3:BW:190:MET:HE3	1.85	0.57
4:BX:194:ARG:O	18:BC:385:MET:HE1	2.05	0.57
10:Bd:6:LYS:HD3	10:Bd:50:LEU:HG	1.87	0.57
12:Bf:549:GLU:HG3	12:Bf:554:TYR:HB3	1.85	0.57
1:AU:788:VAL:HG13	1:AU:884:VAL:HG11	1.84	0.57
12:Af:254:GLY:O	12:Af:258:LYS:HG2	2.05	0.57
16:AE:204:VAL:HG23	16:AE:205:ASP:H	1.69	0.57
26:AN:26:ILE:CG2	32:BT:179:ARG:HA	2.28	0.57
27:AO:132:LEU:HD12	32:BT:144:TYR:HB3	1.85	0.57
32:AT:33:LEU:HD11	26:BN:166:ARG:HG3	1.77	0.57
5:BY:79:ASP:HA	5:BY:82:LYS:HG2	1.87	0.57
9:Bc:152:LYS:HG3	9:Bc:153:GLY:H	1.70	0.57
15:BD:159:LYS:HB3	15:BD:160:PRO:HA	1.87	0.57
18:BC:346:LYS:O	18:BC:350:LEU:HD12	2.04	0.57
19:BG:128:ASN:HB3	19:BG:131:MET:HG2	1.86	0.57
26:BN:144:ARG:NH2	26:BN:151:GLU:OE1	2.38	0.57
28:BP:12:MET:HG3	28:BP:138:VAL:HG12	1.86	0.57
2:AV:411:SER:HB2	2:AV:447:ILE:HD13	1.86	0.57
9:Ac:46:ARG:CG	16:AE:85:ARG:NH2	2.53	0.57
15:AD:384:MET:HE3	16:AE:164:ILE:HD11	1.86	0.57
15:AD:388:ARG:NH2	16:AE:144:GLU:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AE:195:PHE:HD1	16:AE:229:ILE:HB	1.70	0.57
23:AK:11:GLY:C	23:AK:13:ASN:H	2.12	0.57
31:AS:159:GLN:CG	27:BO:207:GLY:O	2.51	0.57
14:BB:208:PRO:O	14:BB:212:GLU:HG2	2.04	0.57
26:BN:96:ALA:HB3	26:BN:116:MET:HA	1.87	0.57
32:BT:6:VAL:O	32:BT:56:ASP:HA	2.05	0.57
2:AV:224:LEU:HD13	2:AV:227:VAL:HB	1.87	0.57
3:AW:45:GLU:HB2	3:AW:93:ARG:HG3	1.85	0.57
5:AY:97:GLU:HG3	18:AC:148:TYR:HE2	1.70	0.57
21:AI:127:LYS:HD3	22:AJ:3:TYR:OH	2.05	0.57
24:AL:201:ALA:HA	24:AL:239:ARG:HH11	1.68	0.57
26:AN:96:ALA:HB3	26:AN:116:MET:HA	1.87	0.57
27:AO:195:LYS:CD	31:BS:184:GLU:HG3	2.33	0.57
28:AP:33:GLN:O	30:BR:166:ARG:NH2	2.38	0.57
30:AR:168:ALA:HB3	28:BP:32:ALA:HA	1.87	0.57
1:BU:187:LEU:HD13	15:BD:45:LYS:HG2	1.87	0.57
6:BZ:212:LEU:HD12	7:Ba:350:LYS:HD2	1.86	0.57
12:Bf:201:GLU:HG3	12:Bf:202:HIS:CD2	2.39	0.57
12:Bf:726:ILE:HG12	12:Bf:761:MET:HA	1.87	0.57
15:BD:341:LYS:HB3	15:BD:364:VAL:HG23	1.87	0.57
17:BF:91:SER:OG	17:BF:125:LYS:O	2.20	0.57
18:BC:197:THR:HG23	18:BC:213:ARG:HH12	1.68	0.57
24:BL:157:ARG:NH2	25:BM:56:LYS:HZ3	2.01	0.57
3:AW:137:TYR:HB3	3:AW:140:ILE:HD12	1.86	0.57
12:Af:201:GLU:HG3	12:Af:202:HIS:CD2	2.39	0.57
14:AB:258:LYS:HE2	18:AC:228:ALA:O	2.05	0.57
15:AD:336:PRO:O	15:AD:341:LYS:NZ	2.34	0.57
16:AE:236:ASP:N	16:AE:236:ASP:OD1	2.35	0.57
18:AC:90:HIS:HB2	18:AC:91:PRO:HD3	1.86	0.57
24:AL:189:LYS:HA	24:AL:192:LEU:HG	1.87	0.57
5:BY:97:GLU:HG3	18:BC:148:TYR:HE2	1.70	0.57
10:Bd:227:SER:C	10:Bd:229:GLN:HA	2.30	0.57
12:Bf:352:HIS:HA	12:Bf:354:GLU:HG2	1.87	0.57
13:BA:206:ILE:N	17:BF:373:MET:SD	2.63	0.57
14:BB:210:TYR:O	14:BB:214:MET:HB2	2.04	0.57
15:BD:384:MET:HE3	16:BE:164:ILE:HD11	1.86	0.57
15:BD:388:ARG:NH2	16:BE:144:GLU:OE1	2.37	0.57
20:BH:105:ILE:HG12	20:BH:110:LEU:HD12	1.87	0.57
24:BL:18:ARG:NH1	24:BL:23:GLU:OE2	2.38	0.57
25:BM:73:VAL:HG22	25:BM:139:SER:HB2	1.87	0.57
2:AV:148:ARG:HG3	2:AV:149:PRO:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:358:MET:HB2	2:AV:359:PRO:HD3	1.87	0.56
5:AY:97:GLU:OE2	18:AC:162:LYS:CD	2.53	0.56
14:AB:175:LYS:HB3	14:AB:176:VAL:HB	1.85	0.56
15:AD:136:SER:CB	18:AC:67:GLN:HA	2.34	0.56
15:AD:341:LYS:HB3	15:AD:364:VAL:HG23	1.87	0.56
16:AE:345:ASN:HD22	17:AF:345:SER:CB	2.18	0.56
20:AH:66:GLU:HG3	20:AH:91:ARG:NH2	2.20	0.56
22:AJ:96:LEU:HA	29:AQ:62:LYS:HE2	1.86	0.56
23:AK:215:ILE:HD12	23:AK:234:LEU:HD11	1.86	0.56
25:AM:106:ILE:HD11	25:AM:110:HIS:HB2	1.87	0.56
29:AQ:140:LEU:CD2	30:BR:166:ARG:HG2	2.35	0.56
29:AQ:166:GLU:OE2	30:BR:141:ARG:CA	2.53	0.56
2:BV:90:GLU:OE1	2:BV:90:GLU:N	2.38	0.56
9:Bc:191:ALA:C	9:Bc:194:HIS:HD1	2.13	0.56
10:Bd:114:GLU:HA	10:Bd:117:THR:HG22	1.87	0.56
12:Bf:603:SER:HB3	12:Bf:635:LYS:HG3	1.87	0.56
12:Bf:710:LEU:HD23	12:Bf:713:PHE:HD2	1.70	0.56
13:BA:305:GLN:O	13:BA:312:ARG:NE	2.38	0.56
17:BF:374:ASN:HB3	17:BF:414:GLU:HG3	1.87	0.56
17:BF:385:ALA:O	17:BF:388:THR:OG1	2.23	0.56
18:BC:174:LEU:HA	18:BC:177:ALA:HB3	1.86	0.56
21:BI:127:LYS:HD3	22:BJ:3:TYR:OH	2.04	0.56
25:BM:38:GLY:HA3	25:BM:136:MET:HE2	1.87	0.56
7:Aa:33:LEU:HD13	7:Aa:36:GLN:HB2	1.87	0.56
8:Ab:15:TYR:O	8:Ab:25:ARG:NH1	2.37	0.56
9:Ac:152:LYS:HG3	9:Ac:153:GLY:H	1.70	0.56
10:Ad:6:LYS:HD3	10:Ad:50:LEU:HG	1.87	0.56
12:Af:278:VAL:O	12:Af:282:PHE:HB3	2.04	0.56
12:Af:687:ARG:O	12:Af:691:PRO:HD3	2.05	0.56
13:AA:206:ILE:HG13	13:AA:207:GLU:H	1.69	0.56
13:AA:305:GLN:O	13:AA:312:ARG:NE	2.38	0.56
16:AE:50:LEU:CD1	17:AF:138:GLY:HA3	2.35	0.56
18:AC:295:THR:HG22	18:AC:296:ASN:H	1.69	0.56
22:AJ:88:ARG:HH21	29:AQ:69:MET:C	2.13	0.56
28:AP:179:ALA:HB1	30:BR:168:ALA:O	2.05	0.56
1:BU:112:CYS:SG	1:BU:159:ARG:NH1	2.78	0.56
13:BA:423:PHE:CZ	14:BB:350:LYS:HD3	2.40	0.56
15:BD:136:SER:O	18:BC:66:LEU:CD2	2.52	0.56
15:BD:136:SER:CB	18:BC:67:GLN:HA	2.34	0.56
19:BG:211:LYS:NZ	19:BG:232:GLU:OE2	2.38	0.56
24:BL:189:LYS:HA	24:BL:192:LEU:HG	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BQ:164:LEU:HB3	29:BQ:196:PHE:HZ	1.69	0.56
1:AU:112:CYS:SG	1:AU:159:ARG:NH1	2.78	0.56
4:AX:194:ARG:O	18:AC:385:MET:HE1	2.05	0.56
5:AY:92:GLU:HA	5:AY:100:ILE:HD13	1.86	0.56
7:Aa:97:LEU:HD22	7:Aa:118:ILE:HG13	1.85	0.56
10:Ad:227:SER:C	10:Ad:229:GLN:HA	2.30	0.56
10:Ad:241:GLU:HA	10:Ad:244:LYS:HB2	1.88	0.56
11:Ae:42:ASN:O	11:Ae:46:ASP:HB2	2.06	0.56
12:Af:300:ARG:HG3	12:Af:303:VAL:H	1.70	0.56
12:Af:739:ALA:HB3	13:AA:169:LYS:CD	2.36	0.56
12:Af:774:GLY:HA2	12:Af:778:LEU:N	2.19	0.56
13:AA:201:PHE:CE1	17:AF:408:LEU:HD22	2.41	0.56
13:AA:292:ASP:O	13:AA:296:GLN:N	2.23	0.56
14:AB:223:ILE:HG13	14:AB:346:ARG:HB3	1.87	0.56
15:AD:293:LEU:O	15:AD:296:MET:HG2	2.06	0.56
16:AE:371:VAL:O	16:AE:375:ALA:CB	2.53	0.56
18:AC:69:GLN:HG2	18:AC:118:ASN:CB	2.32	0.56
19:AG:138:MET:HE3	19:AG:140:LEU:HG	1.87	0.56
23:AK:37:ALA:HB2	23:AK:50:VAL:HG23	1.87	0.56
24:AL:52:ALA:HB2	24:AL:59:HIS:HA	1.86	0.56
25:AM:38:GLY:HA3	25:AM:136:MET:HE2	1.87	0.56
27:AO:195:LYS:HE3	31:BS:180:ILE:HG23	1.71	0.56
1:BU:759:SER:HA	1:BU:782:ALA:HA	1.86	0.56
3:BW:370:TYR:HA	3:BW:371:THR:HB	1.88	0.56
6:BZ:186:THR:HG23	6:BZ:187:LEU:H	1.70	0.56
9:Bc:154:LYS:HB3	9:Bc:156:VAL:HG22	1.87	0.56
9:Bc:227:GLU:OE1	9:Bc:233:ASP:N	2.39	0.56
12:Bf:314:TYR:HA	12:Bf:343:LYS:HE2	1.86	0.56
12:Bf:492:SER:O	12:Bf:493:ASN:ND2	2.38	0.56
12:Bf:617:SER:HB2	12:Bf:620:PHE:HA	1.85	0.56
13:BA:205:GLY:HA2	13:BA:206:ILE:HG22	1.86	0.56
14:BB:106:PRO:HB2	14:BB:154:HIS:CE1	2.40	0.56
14:BB:258:LYS:HE2	18:BC:228:ALA:O	2.05	0.56
15:BD:374:ASP:OD1	16:BE:291:ARG:NH1	2.39	0.56
16:BE:345:ASN:HD22	17:BF:345:SER:CB	2.18	0.56
18:BC:163:GLU:O	18:BC:167:LEU:HB2	2.04	0.56
22:BJ:104:VAL:HG11	22:BJ:143:ARG:HB2	1.87	0.56
25:BM:229:LYS:HZ1	25:BM:235:ALA:H	1.52	0.56
2:AV:200:ARG:HH11	2:AV:242:HIS:HB2	1.71	0.56
12:Af:211:ILE:HG13	12:Af:223:GLU:HG2	1.88	0.56
12:Af:528:GLY:O	12:Af:531:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:106:PRO:HB2	14:AB:154:HIS:CE1	2.40	0.56
17:AF:406:ILE:HA	17:AF:409:ARG:HG2	1.87	0.56
20:AH:43:GLY:HA3	20:AH:213:CYS:O	2.06	0.56
24:AL:18:ARG:NH1	24:AL:23:GLU:OE2	2.38	0.56
24:AL:172:LEU:O	24:AL:176:MET:HB3	2.06	0.56
25:AM:73:VAL:HG22	25:AM:139:SER:HB2	1.86	0.56
28:AP:172:LEU:CB	31:BS:157:ASN:HB3	2.36	0.56
29:AQ:22:ALA:CA	29:BQ:170:ARG:HH11	2.17	0.56
31:AS:125:ASP:OD1	31:AS:129:SER:N	2.38	0.56
5:BY:92:GLU:HA	5:BY:100:ILE:HD13	1.86	0.56
5:BY:203:ASP:N	5:BY:203:ASP:OD1	2.36	0.56
8:Bb:94:HIS:HD2	8:Bb:136:VAL:HG21	1.71	0.56
10:Bd:241:GLU:HA	10:Bd:244:LYS:HB2	1.87	0.56
13:BA:174:TYR:HA	13:BA:227:ARG:HG3	1.87	0.56
14:BB:223:ILE:HG13	14:BB:346:ARG:HB3	1.87	0.56
18:BC:369:TYR:O	18:BC:373:GLU:HB2	2.06	0.56
23:BK:225:ASN:HB2	23:BK:226:PHE:CG	2.39	0.56
31:BS:125:ASP:OD1	31:BS:129:SER:N	2.38	0.56
3:AW:274:VAL:O	3:AW:283:GLN:NE2	2.39	0.56
12:Af:441:LYS:HE3	12:Af:445:LEU:HD23	1.87	0.56
13:AA:102:ILE:HG22	13:AA:113:ILE:HG12	1.87	0.56
17:AF:359:GLU:HB2	17:AF:385:ALA:HB1	1.88	0.56
22:AJ:33:VAL:O	22:AJ:44:GLY:N	2.38	0.56
27:AO:193:ASN:HD21	31:BS:213:ASP:HB3	1.71	0.56
31:AS:177:ASP:OD2	27:BO:199:LEU:C	2.14	0.56
2:BV:82:LEU:O	2:BV:87:SER:OG	2.23	0.56
2:BV:358:MET:HB2	2:BV:359:PRO:HD3	1.87	0.56
12:Bf:259:PHE:CG	12:Bf:268:LEU:HD21	2.41	0.56
14:BB:108:SER:N	14:BB:152:LEU:O	2.39	0.56
14:BB:144:LEU:HD22	14:BB:162:VAL:HG11	1.86	0.56
15:BD:293:LEU:O	15:BD:296:MET:HG2	2.06	0.56
15:BD:345:PHE:HB3	15:BD:360:LEU:HD22	1.88	0.56
16:BE:371:VAL:O	16:BE:375:ALA:CB	2.53	0.56
17:BF:204:LEU:HD13	17:BF:212:PHE:CZ	2.39	0.56
20:BH:43:GLY:HA3	20:BH:213:CYS:O	2.06	0.56
31:BS:114:ASP:OD1	31:BS:118:LYS:N	2.28	0.56
1:AU:705:LYS:HA	1:AU:708:GLN:HG3	1.88	0.56
3:AW:67:LEU:HD22	3:AW:71:VAL:HB	1.88	0.56
7:Aa:71:VAL:HA	8:Ab:17:ARG:NH1	2.20	0.56
12:Af:726:ILE:HG12	12:Af:761:MET:HA	1.87	0.56
14:AB:166:ASP:HA	14:AB:167:THR:OG1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AE:128:GLY:HA2	16:AE:129:ASN:HB2	1.86	0.56
28:AP:173:ASN:HD21	31:BS:151:ASN:ND2	2.04	0.56
4:BX:83:ALA:CB	20:BH:229:TYR:HB2	2.36	0.56
5:BY:23:ARG:NH1	5:BY:52:PRO:O	2.35	0.56
13:BA:425:ALA:C	13:BA:427:PRO:HD3	2.30	0.56
16:BE:121:ASN:ND2	16:BE:197:LYS:O	2.39	0.56
16:BE:138:LEU:CD2	16:BE:140:GLU:HG2	2.36	0.56
18:BC:198:LEU:HD11	35:BC:501:ADP:H2'	1.85	0.56
20:BH:66:GLU:HG3	20:BH:91:ARG:NH2	2.20	0.56
2:AV:90:GLU:N	2:AV:90:GLU:OE1	2.38	0.56
4:AX:199:ALA:HA	18:AC:392:GLN:OE1	2.06	0.56
9:Ac:227:GLU:OE2	9:Ac:234:TYR:N	2.39	0.56
12:Af:265:ALA:HB1	12:Af:266:LEU:HA	1.88	0.56
12:Af:352:HIS:HA	12:Af:354:GLU:HG2	1.87	0.56
12:Af:492:SER:O	12:Af:493:ASN:ND2	2.38	0.56
13:AA:100:LYS:HE2	13:AA:113:ILE:HD13	1.86	0.56
14:AB:108:SER:N	14:AB:152:LEU:O	2.39	0.56
16:AE:138:LEU:CD2	16:AE:140:GLU:HG2	2.36	0.56
27:AO:67:SER:HB3	27:AO:74:PRO:HG3	1.88	0.56
27:AO:207:GLY:O	31:BS:159:GLN:CG	2.52	0.56
29:AQ:47:VAL:HB	29:AQ:102:LEU:HG	1.88	0.56
11:Be:59:GLU:O	11:Be:63:HIS:ND1	2.39	0.56
12:Bf:265:ALA:HB1	12:Bf:266:LEU:HA	1.88	0.56
12:Bf:739:ALA:HB3	13:BA:169:LYS:CD	2.36	0.56
14:BB:223:ILE:HD11	14:BB:346:ARG:H	1.70	0.56
14:BB:390:LEU:HD23	14:BB:394:ASP:HB3	1.87	0.56
15:BD:75:ALA:HB1	18:BC:56:VAL:HG21	1.88	0.56
25:BM:106:ILE:HD11	25:BM:110:HIS:HB2	1.87	0.56
1:AU:187:LEU:HD13	15:AD:45:LYS:HG2	1.87	0.56
2:AV:159:LEU:HD13	2:AV:178:SER:HB2	1.88	0.56
2:AV:290:TYR:CD1	2:AV:328:VAL:HG23	2.41	0.56
2:AV:342:ILE:HD12	2:AV:343:PRO:HD2	1.87	0.56
3:AW:5:GLY:HA3	3:AW:47:LEU:HD22	1.88	0.56
3:AW:72:LYS:HZ1	3:AW:122:LEU:HB2	1.71	0.56
8:Ab:12:ASN:ND2	8:Ab:53:THR:OG1	2.39	0.56
8:Ab:94:HIS:HD2	8:Ab:136:VAL:HG21	1.71	0.56
12:Af:603:SER:HB3	12:Af:635:LYS:HG3	1.87	0.56
16:AE:121:ASN:ND2	16:AE:197:LYS:O	2.39	0.56
16:AE:368:MET:O	16:AE:372:ARG:CB	2.53	0.56
25:AM:40:ARG:HH11	25:AM:147:GLN:HA	1.71	0.56
31:AS:151:ASN:HD21	28:BP:169:GLN:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:224:LEU:HD13	2:BV:227:VAL:HB	1.87	0.56
3:BW:274:VAL:O	3:BW:283:GLN:NE2	2.39	0.56
6:BZ:207:ASP:O	6:BZ:210:SER:OG	2.11	0.56
8:Bb:12:ASN:ND2	8:Bb:53:THR:OG1	2.39	0.56
8:Bb:15:TYR:O	8:Bb:25:ARG:NH1	2.37	0.56
9:Bc:227:GLU:OE2	9:Bc:234:TYR:N	2.39	0.56
12:Bf:211:ILE:HG13	12:Bf:223:GLU:HG2	1.88	0.56
12:Bf:654:VAL:HA	12:Bf:657:ILE:HG22	1.88	0.56
14:BB:166:ASP:HA	14:BB:167:THR:OG1	2.06	0.56
14:BB:349:ARG:NH2	14:BB:351:ILE:HG22	2.20	0.56
17:BF:359:GLU:HB2	17:BF:385:ALA:HB1	1.87	0.56
22:BJ:88:ARG:HH21	29:BQ:69:MET:C	2.13	0.56
30:BR:55:TRP:NE1	31:BS:97:TYR:OH	2.38	0.56
4:AX:83:ALA:CB	20:AH:229:TYR:HB2	2.36	0.56
6:AZ:222:ILE:CG2	6:AZ:223:ASN:HB3	2.33	0.56
13:AA:174:TYR:HA	13:AA:227:ARG:HG3	1.87	0.56
14:AB:390:LEU:HD23	14:AB:394:ASP:HB3	1.87	0.56
15:AD:75:ALA:HB1	18:AC:56:VAL:HG21	1.88	0.56
15:AD:114:ARG:HH21	18:AC:62:GLU:HG2	1.65	0.56
15:AD:315:ASP:OD1	15:AD:315:ASP:N	2.39	0.56
15:AD:374:ASP:OD1	16:AE:291:ARG:NH1	2.39	0.56
20:AH:105:ILE:HG12	20:AH:110:LEU:HD12	1.87	0.56
23:AK:225:ASN:HB2	23:AK:226:PHE:CD2	2.41	0.56
28:AP:32:ALA:HA	30:BR:168:ALA:HB3	1.88	0.56
7:Ba:71:VAL:HA	8:Bb:17:ARG:NH1	2.20	0.56
7:Ba:254:ALA:HA	7:Ba:261:LEU:HD23	1.88	0.56
12:Bf:254:GLY:O	12:Bf:258:LYS:HG2	2.05	0.56
12:Bf:767:GLY:HA3	12:Bf:811:LEU:HD21	1.88	0.56
13:BA:428:ARG:O	13:BA:431:THR:OG1	2.19	0.56
15:BD:114:ARG:HH21	18:BC:62:GLU:HG2	1.65	0.56
2:AV:228:ARG:HH12	2:AV:254:LEU:HA	1.71	0.56
3:AW:374:THR:HG23	7:Aa:327:VAL:HA	1.87	0.56
9:Ac:46:ARG:O	16:AE:85:ARG:NH2	2.38	0.56
12:Af:710:LEU:HD23	12:Af:713:PHE:HD2	1.70	0.56
12:Af:767:GLY:HA3	12:Af:811:LEU:HD21	1.88	0.56
14:AB:349:ARG:NH2	14:AB:351:ILE:HG22	2.20	0.56
17:AF:215:LEU:HB2	17:AF:217:ILE:HG12	1.87	0.56
22:AJ:104:VAL:HG11	22:AJ:143:ARG:HB2	1.87	0.56
26:AN:59:VAL:O	26:AN:63:LEU:HB3	2.06	0.56
29:AQ:170:ARG:HH11	29:BQ:22:ALA:CA	2.16	0.56
32:AT:6:VAL:O	32:AT:56:ASP:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:160:LEU:HB2	2:BV:161:PRO:HD3	1.88	0.56
3:BW:67:LEU:HD22	3:BW:71:VAL:HB	1.88	0.56
3:BW:416:GLN:HB3	3:BW:417:ARG:CA	2.35	0.56
4:BX:199:ALA:HA	18:BC:392:GLN:OE1	2.06	0.56
6:BZ:195:VAL:HG13	6:BZ:199:LYS:HD3	1.87	0.56
18:BC:295:THR:HG22	18:BC:296:ASN:H	1.69	0.56
23:BK:37:ALA:HB2	23:BK:50:VAL:HG23	1.87	0.56
6:AZ:186:THR:HG23	6:AZ:187:LEU:H	1.70	0.55
9:Ac:154:LYS:HB3	9:Ac:156:VAL:HG22	1.87	0.55
10:Ad:114:GLU:HA	10:Ad:117:THR:HG22	1.87	0.55
12:Af:352:HIS:CE1	12:Af:567:LEU:HB2	2.41	0.55
13:AA:417:ILE:O	13:AA:421:ALA:HB3	2.07	0.55
17:AF:238:ARG:CZ	17:AF:250:LYS:HE3	2.36	0.55
18:AC:235:PHE:CE2	18:AC:239:ARG:HD2	2.41	0.55
31:AS:181:SER:CB	27:BO:195:LYS:HZ1	2.19	0.55
32:AT:33:LEU:CB	26:BN:134:TYR:OH	2.54	0.55
1:BU:428:PRO:HB3	1:BU:439:GLU:HB2	1.88	0.55
1:BU:571:CYS:HB2	1:BU:601:ARG:HH21	1.71	0.55
3:BW:405:LYS:HG3	4:BX:342:PHE:HA	1.88	0.55
3:BW:455:LEU:HD12	3:BW:456:GLN:HG2	1.88	0.55
12:Bf:441:LYS:HE3	12:Bf:445:LEU:HD23	1.88	0.55
12:Bf:606:VAL:HA	12:Bf:635:LYS:HE2	1.89	0.55
15:BD:114:ARG:HH21	18:BC:62:GLU:CD	2.14	0.55
16:BE:368:MET:O	16:BE:372:ARG:CB	2.53	0.55
17:BF:238:ARG:CZ	17:BF:250:LYS:HE3	2.36	0.55
18:BC:248:MET:HE3	18:BC:273:MET:HB3	1.88	0.55
25:BM:40:ARG:HH11	25:BM:147:GLN:HA	1.71	0.55
3:AW:328:LEU:HD11	3:AW:341:PHE:HE2	1.72	0.55
5:AY:23:ARG:NH1	5:AY:52:PRO:O	2.35	0.55
8:Ab:16:MET:HA	8:Ab:25:ARG:HD2	1.88	0.55
9:Ac:154:LYS:HZ2	15:AD:81:ARG:CZ	2.19	0.55
11:Ae:59:GLU:O	11:Ae:63:HIS:ND1	2.39	0.55
17:AF:97:LEU:CD1	17:AF:120:LYS:CG	2.70	0.55
17:AF:374:ASN:HB3	17:AF:414:GLU:HG3	1.87	0.55
21:AI:3:ARG:HA	22:AJ:5:ARG:HH12	1.71	0.55
26:AN:134:TYR:OH	32:BT:33:LEU:CB	2.54	0.55
28:AP:95:LEU:HD11	28:AP:107:PRO:HG3	1.89	0.55
31:AS:146:GLN:HB3	28:BP:177:ARG:NH2	2.21	0.55
1:BU:643:SER:O	1:BU:649:ARG:NH1	2.37	0.55
7:Ba:33:LEU:HD13	7:Ba:36:GLN:HB2	1.87	0.55
7:Ba:100:THR:HA	7:Ba:103:LYS:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Be:42:ASN:O	11:Be:46:ASP:HB2	2.06	0.55
13:BA:333:ARG:O	13:BA:337:LEU:N	2.37	0.55
19:BG:138:MET:HE3	19:BG:140:LEU:HG	1.87	0.55
24:BL:41:LYS:HG3	24:BL:180:MET:HB3	1.89	0.55
26:BN:59:VAL:O	26:BN:63:LEU:HB3	2.06	0.55
31:BS:2:PHE:CD1	32:BT:105:PRO:HG3	2.41	0.55
4:AX:359:ALA:O	4:AX:363:ARG:HG3	2.06	0.55
10:Ad:184:LYS:HB2	10:Ad:185:ALA:HB2	1.88	0.55
12:Af:558:LEU:HD21	12:Af:573:ILE:HD11	1.88	0.55
18:AC:248:MET:HE3	18:AC:273:MET:HB3	1.88	0.55
30:AR:133:VAL:HG21	29:BQ:137:PHE:CB	2.36	0.55
31:AS:184:GLU:HG3	27:BO:195:LYS:CD	2.34	0.55
12:Bf:352:HIS:CE1	12:Bf:567:LEU:HB2	2.41	0.55
12:Bf:441:LYS:HZ1	12:Bf:445:LEU:HD23	1.70	0.55
12:Bf:528:GLY:O	12:Bf:531:ASN:ND2	2.39	0.55
13:BA:102:ILE:HG22	13:BA:113:ILE:HG12	1.87	0.55
13:BA:176:ASP:HA	13:BA:357:ILE:HD12	1.89	0.55
15:BD:82:ILE:HG21	18:BC:63:LEU:HD22	1.87	0.55
18:BC:235:PHE:CE2	18:BC:239:ARG:HD2	2.41	0.55
19:BG:176:THR:O	19:BG:180:GLU:HG3	2.06	0.55
22:BJ:33:VAL:O	22:BJ:44:GLY:N	2.38	0.55
1:AU:181:LEU:HD11	1:AU:201:LEU:HD12	1.89	0.55
1:AU:428:PRO:HB3	1:AU:439:GLU:HB2	1.88	0.55
5:AY:293:ARG:NH1	11:Ae:49:GLU:OE2	2.40	0.55
10:Ad:97:GLN:NE2	10:Ad:161:GLU:OE2	2.39	0.55
12:Af:259:PHE:CG	12:Af:268:LEU:HD21	2.41	0.55
13:AA:333:ARG:NH1	13:AA:340:LYS:HD3	2.21	0.55
13:AA:423:PHE:CZ	14:AB:350:LYS:HD3	2.40	0.55
14:AB:209:GLU:HG2	14:AB:210:TYR:H	1.71	0.55
18:AC:369:TYR:O	18:AC:373:GLU:HB2	2.06	0.55
22:AJ:23:GLN:HG2	22:AJ:149:PRO:HG2	1.88	0.55
31:AS:2:PHE:CD1	32:AT:105:PRO:HG3	2.41	0.55
2:BV:290:TYR:CD1	2:BV:328:VAL:HG23	2.41	0.55
3:BW:408:ARG:NH1	4:BX:349:HIS:HB3	2.22	0.55
9:Bc:46:ARG:O	16:BE:85:ARG:NH2	2.38	0.55
12:Bf:669:GLU:C	12:Bf:671:ALA:H	2.14	0.55
15:BD:315:ASP:OD1	15:BD:315:ASP:N	2.39	0.55
16:BE:204:VAL:HG23	16:BE:205:ASP:H	1.69	0.55
19:BG:139:ILE:HG13	19:BG:153:LYS:HG3	1.89	0.55
28:BP:2:SER:OG	28:BP:3:ILE:N	2.38	0.55
3:AW:405:LYS:HG3	4:AX:342:PHE:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ad:234:ASP:HB3	10:Ad:238:PRO:HD3	1.89	0.55
14:AB:380:LEU:HA	14:AB:383:LEU:HD12	1.89	0.55
15:AD:323:ARG:NH1	18:AC:141:GLU:O	2.39	0.55
29:AQ:141:SER:HG	30:BR:137:GLY:HA3	1.71	0.55
29:AQ:166:GLU:CD	30:BR:140:ASP:CB	2.75	0.55
31:AS:176:LYS:H	27:BO:199:LEU:HD23	1.67	0.55
1:BU:705:LYS:HA	1:BU:708:GLN:HG3	1.88	0.55
3:BW:65:ARG:HB2	3:BW:66:ILE:HB	1.88	0.55
14:BB:209:GLU:HG2	14:BB:210:TYR:H	1.71	0.55
18:BC:90:HIS:HB2	18:BC:91:PRO:HD3	1.86	0.55
22:BJ:154:HIS:HE1	23:BK:64:ILE:HG13	1.71	0.55
23:BK:225:ASN:HB2	23:BK:226:PHE:CD2	2.41	0.55
24:BL:172:LEU:O	24:BL:176:MET:HB3	2.06	0.55
27:BO:67:SER:HB3	27:BO:74:PRO:HG3	1.88	0.55
28:BP:95:LEU:HD11	28:BP:107:PRO:HG3	1.89	0.55
9:Ac:28:ALA:HB1	9:Ac:180:ASN:HD21	1.72	0.55
12:Af:669:GLU:C	12:Af:671:ALA:H	2.14	0.55
13:AA:218:PRO:O	13:AA:221:GLY:N	2.30	0.55
13:AA:249:TYR:HE2	17:AF:259:MET:HG3	1.72	0.55
17:AF:384:LEU:O	17:AF:388:THR:HG23	2.06	0.55
18:AC:99:VAL:HG13	18:AC:100:ASP:C	2.31	0.55
19:AG:11:ARG:O	19:AG:24:GLN:NE2	2.40	0.55
19:AG:176:THR:O	19:AG:180:GLU:HG3	2.06	0.55
22:AJ:32:ALA:HB2	22:AJ:45:VAL:HG23	1.87	0.55
28:AP:147:TYR:HE1	31:BS:185:ARG:HH22	1.49	0.55
29:AQ:145:ARG:NH1	30:BR:199:TYR:CD1	2.70	0.55
31:AS:63:THR:OG1	32:AT:94:ARG:NH1	2.40	0.55
2:BV:200:ARG:HH11	2:BV:242:HIS:HB2	1.71	0.55
12:Bf:397:LYS:HZ1	12:Bf:408:LEU:HD21	1.71	0.55
12:Bf:721:VAL:O	12:Bf:725:SER:HB3	2.07	0.55
13:BA:201:PHE:CE1	17:BF:408:LEU:HD22	2.40	0.55
13:BA:417:ILE:O	13:BA:421:ALA:HB3	2.07	0.55
17:BF:230:GLY:HA2	17:BF:231:THR:HB	1.88	0.55
21:BI:3:ARG:HA	22:BJ:5:ARG:HH12	1.71	0.55
21:BI:13:SER:C	22:BJ:21:TYR:HH	2.09	0.55
7:Aa:100:THR:HA	7:Aa:103:LYS:HE2	1.89	0.55
7:Aa:254:ALA:HA	7:Aa:261:LEU:HD23	1.88	0.55
13:AA:417:ILE:O	13:AA:421:ALA:CB	2.55	0.55
2:BV:79:VAL:HG13	2:BV:80:LYS:N	2.22	0.55
2:BV:411:SER:HB2	2:BV:447:ILE:HD13	1.86	0.55
3:BW:374:THR:HG23	7:Ba:327:VAL:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bd:159:PRO:N	10:Bd:160:ALA:HA	2.22	0.55
10:Bd:234:ASP:HB3	10:Bd:238:PRO:HD3	1.89	0.55
12:Bf:207:LEU:HA	12:Bf:210:GLU:HB3	1.89	0.55
12:Bf:687:ARG:O	12:Bf:691:PRO:HD3	2.06	0.55
13:BA:249:TYR:HE2	17:BF:259:MET:HG3	1.72	0.55
21:BI:134:LEU:H	21:BI:150:SER:HG	1.54	0.55
29:BQ:47:VAL:HB	29:BQ:102:LEU:HG	1.88	0.55
7:Aa:245:VAL:HA	7:Aa:246:GLU:HB2	1.89	0.55
9:Ac:47:ALA:CA	16:AE:85:ARG:NH1	2.64	0.55
12:Af:303:VAL:O	12:Af:307:LEU:N	2.40	0.55
19:AG:139:ILE:HG13	19:AG:153:LYS:HG3	1.89	0.55
22:AJ:154:HIS:HE1	23:AK:64:ILE:HG13	1.71	0.55
25:AM:34:SER:OG	25:AM:65:ARG:NH2	2.40	0.55
2:BV:342:ILE:HD12	2:BV:343:PRO:HD2	1.87	0.55
3:BW:84:ASN:O	3:BW:87:ILE:HD12	2.07	0.55
12:Bf:558:LEU:HD21	12:Bf:573:ILE:HD11	1.88	0.55
22:BJ:32:ALA:HB2	22:BJ:45:VAL:HG23	1.87	0.55
23:BK:79:SER:OG	23:BK:170:ILE:HD13	2.07	0.55
2:AV:211:TYR:O	2:AV:214:HIS:HB2	2.07	0.55
3:AW:370:TYR:HA	3:AW:371:THR:HB	1.87	0.55
5:AY:181:LYS:HA	5:AY:200:LEU:HD12	1.89	0.55
9:Ac:227:GLU:OE1	9:Ac:233:ASP:N	2.39	0.55
12:Af:556:ARG:NH2	12:Af:591:ALA:HB3	2.22	0.55
13:AA:92:PRO:O	13:AA:93:LEU:HB2	2.07	0.55
13:AA:295:VAL:O	13:AA:299:MET:HG2	2.07	0.55
14:AB:223:ILE:HD11	14:AB:346:ARG:H	1.70	0.55
14:AB:387:LYS:HB3	14:AB:390:LEU:HD13	1.89	0.55
19:AG:211:LYS:NZ	19:AG:232:GLU:OE2	2.38	0.55
27:AO:195:LYS:HZ1	31:BS:181:SER:CB	2.20	0.55
30:AR:141:ARG:HB2	29:BQ:166:GLU:HG3	1.89	0.55
2:BV:228:ARG:HH12	2:BV:254:LEU:HA	1.72	0.55
3:BW:5:GLY:HA3	3:BW:47:LEU:HD22	1.88	0.55
3:BW:328:LEU:HD11	3:BW:341:PHE:HE2	1.72	0.55
3:BW:371:THR:O	3:BW:414:ASN:HB2	2.06	0.55
3:BW:435:LEU:HD13	9:Bc:239:LYS:HE3	1.89	0.55
8:Bb:68:THR:HA	8:Bb:71:ILE:HD13	1.89	0.55
9:Bc:243:SER:CB	9:Bc:244:VAL:HB	2.37	0.55
10:Bd:184:LYS:HB2	10:Bd:185:ALA:HB2	1.88	0.55
13:BA:206:ILE:HG12	17:BF:404:GLY:HA3	1.89	0.55
13:BA:333:ARG:NH1	13:BA:340:LYS:HD3	2.21	0.55
13:BA:417:ILE:O	13:BA:421:ALA:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BB:380:LEU:HA	14:BB:383:LEU:HD12	1.89	0.55
25:BM:34:SER:OG	25:BM:65:ARG:NH2	2.40	0.55
31:BS:168:LEU:O	31:BS:172:MET:HG2	2.07	0.55
3:AW:371:THR:O	3:AW:414:ASN:HB2	2.06	0.55
3:AW:408:ARG:NH1	4:AX:349:HIS:HB3	2.22	0.55
12:Af:466:LEU:HD22	12:Af:481:SER:HA	1.89	0.55
15:AD:401:LYS:O	15:AD:405:THR:OG1	2.21	0.55
23:AK:79:SER:OG	23:AK:170:ILE:HD13	2.07	0.55
2:BV:211:TYR:O	2:BV:214:HIS:HB2	2.07	0.55
2:BV:490:SER:HA	6:BZ:275:LEU:HD21	1.89	0.55
9:Bc:270:LEU:HD23	9:Bc:273:LYS:HE2	1.89	0.55
12:Bf:303:VAL:O	12:Bf:307:LEU:N	2.40	0.55
13:BA:232:ARG:HH11	13:BA:233:THR:H	1.54	0.55
14:BB:387:LYS:HB3	14:BB:390:LEU:HD13	1.89	0.55
15:BD:323:ARG:NH1	18:BC:141:GLU:O	2.39	0.55
17:BF:215:LEU:HB2	17:BF:217:ILE:HG12	1.88	0.55
17:BF:384:LEU:O	17:BF:388:THR:HG23	2.06	0.55
17:BF:403:ALA:O	17:BF:407:ALA:HB2	2.07	0.55
17:BF:406:ILE:HA	17:BF:409:ARG:HG2	1.87	0.55
22:BJ:23:GLN:HG2	22:BJ:149:PRO:HG2	1.88	0.55
1:AU:233:LEU:HD13	1:AU:268:LEU:HD21	1.89	0.54
9:Ac:229:LEU:O	9:Ac:230:THR:OG1	2.24	0.54
9:Ac:270:LEU:HD23	9:Ac:273:LYS:HE2	1.89	0.54
12:Af:573:ILE:HG12	12:Af:577:LEU:HD13	1.89	0.54
12:Af:654:VAL:HA	12:Af:657:ILE:HG22	1.88	0.54
12:Af:739:ALA:CB	13:AA:169:LYS:CD	2.86	0.54
14:AB:176:VAL:HG23	14:AB:177:GLU:HB2	1.88	0.54
15:AD:345:PHE:HB3	15:AD:360:LEU:HD22	1.88	0.54
16:AE:118:LEU:HD21	16:AE:225:HIS:CE1	2.42	0.54
17:AF:151:VAL:HB	17:AF:160:ILE:HG21	1.88	0.54
25:AM:57:LEU:HB2	25:AM:58:TYR:CD2	2.42	0.54
27:AO:208:THR:OG1	31:BS:159:GLN:CB	2.54	0.54
32:AT:179:ARG:N	26:BN:29:ARG:NH2	2.48	0.54
5:BY:349:LYS:HG3	5:BY:350:VAL:HG13	1.90	0.54
9:Bc:154:LYS:HZ2	15:BD:81:ARG:CZ	2.21	0.54
9:Bc:156:VAL:HG12	9:Bc:157:ILE:H	1.73	0.54
12:Bf:450:ILE:HG23	12:Bf:810:ILE:HD12	1.88	0.54
12:Bf:556:ARG:NH2	12:Bf:591:ALA:HB3	2.22	0.54
18:BC:330:LYS:O	18:BC:334:ARG:HG3	2.07	0.54
19:BG:11:ARG:O	19:BG:24:GLN:NE2	2.39	0.54
20:BH:50:LYS:NZ	20:BH:62:VAL:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BP:170:ALA:O	28:BP:174:ALA:CB	2.55	0.54
4:AX:124:PHE:CZ	20:AH:234:ALA:OXT	2.60	0.54
6:AZ:101:LEU:HD23	6:AZ:123:ILE:HD11	1.89	0.54
6:AZ:193:ASN:O	6:AZ:196:HIS:ND1	2.20	0.54
10:Ad:228:GLN:N	10:Ad:229:GLN:HA	2.22	0.54
17:AF:385:ALA:O	17:AF:388:THR:OG1	2.23	0.54
4:BX:124:PHE:CZ	20:BH:234:ALA:OXT	2.60	0.54
12:Bf:541:THR:HG22	12:Bf:545:LYS:NZ	2.22	0.54
12:Bf:739:ALA:CB	13:BA:169:LYS:CD	2.86	0.54
13:BA:75:PRO:O	13:BA:79:ASP:HB2	2.07	0.54
13:BA:420:TYR:HA	13:BA:423:PHE:CE2	2.42	0.54
15:BD:81:ARG:CD	15:BD:82:ILE:CD1	2.86	0.54
17:BF:204:LEU:HD13	17:BF:212:PHE:HZ	1.71	0.54
3:AW:422:ASN:ND2	6:AZ:247:LYS:O	2.41	0.54
5:AY:349:LYS:HG3	5:AY:350:VAL:HG13	1.89	0.54
8:Ab:68:THR:HA	8:Ab:71:ILE:HD13	1.89	0.54
12:Af:207:LEU:HA	12:Af:210:GLU:HB3	1.89	0.54
12:Af:541:THR:HG22	12:Af:545:LYS:NZ	2.22	0.54
13:AA:176:ASP:HA	13:AA:357:ILE:HD12	1.89	0.54
13:AA:343:PHE:HA	13:AA:344:SER:OG	2.08	0.54
14:AB:224:LEU:N	14:AB:329:MET:O	2.36	0.54
17:AF:204:LEU:HD13	17:AF:212:PHE:HZ	1.71	0.54
2:BV:285:TRP:O	2:BV:288:TYR:HB3	2.07	0.54
3:BW:62:SER:HB2	3:BW:71:VAL:HG11	1.90	0.54
5:BY:181:LYS:HA	5:BY:200:LEU:HD12	1.89	0.54
6:BZ:102:HIS:CD2	6:BZ:104:ASN:HB3	2.43	0.54
8:Bb:32:ALA:O	8:Bb:35:ILE:HG13	2.07	0.54
9:Bc:46:ARG:HG3	16:BE:85:ARG:HH21	1.65	0.54
17:BF:97:LEU:CD1	17:BF:120:LYS:CG	2.70	0.54
18:BC:119:ASP:N	18:BC:119:ASP:OD1	2.37	0.54
24:BL:224:TYR:HD1	24:BL:228:ASP:HB3	1.73	0.54
3:AW:84:ASN:O	3:AW:87:ILE:HD12	2.07	0.54
12:Af:721:VAL:O	12:Af:725:SER:HB3	2.07	0.54
13:AA:420:TYR:HA	13:AA:423:PHE:CE2	2.42	0.54
15:AD:114:ARG:HH21	18:AC:62:GLU:CD	2.14	0.54
27:AO:208:THR:OG1	31:BS:159:GLN:HB3	1.90	0.54
5:BY:170:GLU:N	5:BY:171:GLY:HA3	2.23	0.54
8:Bb:16:MET:HA	8:Bb:25:ARG:HD2	1.88	0.54
10:Bd:97:GLN:NE2	10:Bd:161:GLU:OE2	2.40	0.54
13:BA:283:ALA:HB3	13:BA:326:THR:HB	1.90	0.54
14:BB:176:VAL:HG23	14:BB:177:GLU:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BB:261:GLY:C	14:BB:263:GLY:H	2.16	0.54
18:BC:99:VAL:HG13	18:BC:100:ASP:C	2.31	0.54
27:BO:41:ILE:HG12	27:BO:102:GLY:HA3	1.90	0.54
1:AU:571:CYS:HB2	1:AU:601:ARG:HH21	1.71	0.54
3:AW:86:ASN:HB3	3:AW:88:MET:HG3	1.90	0.54
4:AX:143:TYR:HD2	4:AX:144:GLN:HG2	1.72	0.54
6:AZ:102:HIS:CD2	6:AZ:104:ASN:HB3	2.43	0.54
6:AZ:195:VAL:HG13	6:AZ:199:LYS:HD3	1.87	0.54
6:AZ:225:GLN:HG2	6:AZ:228:TYR:CE2	2.43	0.54
8:Ab:32:ALA:O	8:Ab:35:ILE:HG13	2.07	0.54
12:Af:509:LYS:HG2	12:Af:515:ALA:HB3	1.89	0.54
12:Af:606:VAL:HA	12:Af:635:LYS:HE2	1.88	0.54
14:AB:153:ASN:HD21	14:AB:160:ILE:HB	1.72	0.54
15:AD:82:ILE:HG21	18:AC:63:LEU:HD22	1.87	0.54
17:AF:81:LYS:O	17:AF:85:THR:HG22	2.08	0.54
21:AI:171:ALA:HB2	21:AI:200:THR:HG21	1.89	0.54
27:AO:17:ASP:O	27:AO:33:LYS:NZ	2.36	0.54
2:BV:475:ALA:O	2:BV:479:ARG:HG2	2.08	0.54
3:BW:441:LYS:HA	3:BW:444:HIS:CE1	2.43	0.54
4:BX:172:LEU:HD12	4:BX:175:LYS:HD3	1.89	0.54
14:BB:153:ASN:HD21	14:BB:160:ILE:HB	1.72	0.54
16:BE:310:LEU:O	16:BE:314:LYS:HG2	2.08	0.54
21:BI:171:ALA:HB2	21:BI:200:THR:HG21	1.89	0.54
2:AV:97:ALA:N	2:AV:98:LEU:HB2	2.23	0.54
9:Ac:216:MET:O	9:Ac:220:LEU:HD13	2.08	0.54
16:AE:170:CYS:SG	16:AE:171:LEU:N	2.81	0.54
17:AF:86:LEU:O	17:AF:88:TYR:N	2.38	0.54
27:AO:199:LEU:CB	31:BS:177:ASP:OD2	2.16	0.54
28:AP:170:ALA:O	28:AP:174:ALA:CB	2.55	0.54
29:AQ:137:PHE:CB	30:BR:133:VAL:HG21	2.36	0.54
30:AR:141:ARG:NE	29:BQ:162:LYS:CB	2.71	0.54
30:AR:166:ARG:O	28:BP:34:MET:N	2.41	0.54
31:AS:157:ASN:HB3	28:BP:172:LEU:HB2	1.89	0.54
4:BX:130:GLU:HB3	4:BX:153:LEU:HD21	1.90	0.54
4:BX:161:ASP:HB2	20:BH:176:LYS:CB	2.37	0.54
4:BX:359:ALA:O	4:BX:363:ARG:HG3	2.06	0.54
5:BY:293:ARG:NH1	11:Be:49:GLU:OE2	2.40	0.54
6:BZ:56:VAL:HA	6:BZ:74:TYR:HE2	1.73	0.54
9:Bc:28:ALA:HB1	9:Bc:180:ASN:HD21	1.71	0.54
13:BA:343:PHE:HA	13:BA:344:SER:OG	2.08	0.54
17:BF:151:VAL:HB	17:BF:160:ILE:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:450:ILE:HG23	12:Af:810:ILE:HD12	1.88	0.54
12:Af:687:ARG:HH12	13:AA:78:TRP:HB2	1.72	0.54
20:AH:50:LYS:NZ	20:AH:62:VAL:O	2.40	0.54
27:AO:38:SER:OG	27:AO:40:ASN:OD1	2.26	0.54
30:AR:166:ARG:HG2	29:BQ:140:LEU:CD2	2.36	0.54
2:BV:97:ALA:N	2:BV:98:LEU:HB2	2.23	0.54
4:BX:143:TYR:HD2	4:BX:144:GLN:HG2	1.72	0.54
4:BX:174:SER:HA	4:BX:177:TYR:HD2	1.73	0.54
7:Ba:245:VAL:HA	7:Ba:246:GLU:HB2	1.89	0.54
10:Bd:228:GLN:N	10:Bd:229:GLN:HA	2.22	0.54
23:BK:169:ALA:HB3	23:BK:178:GLN:HG2	1.89	0.54
2:AV:490:SER:HA	6:AZ:275:LEU:HD21	1.89	0.54
3:AW:455:LEU:HD12	3:AW:456:GLN:HG2	1.88	0.54
9:Ac:280:PRO:HG2	15:AD:121:ARG:HG2	1.90	0.54
10:Ad:58:GLY:O	10:Ad:62:SER:OG	2.19	0.54
12:Af:351:THR:HA	12:Af:352:HIS:HB2	1.88	0.54
12:Af:486:GLY:O	12:Af:490:ALA:HB3	2.08	0.54
12:Af:767:GLY:HA2	12:Af:811:LEU:HD11	1.89	0.54
18:AC:42:LEU:O	18:AC:45:LEU:HB2	2.08	0.54
20:AH:46:LEU:HD13	20:AH:75:VAL:HG22	1.89	0.54
24:AL:41:LYS:HG3	24:AL:180:MET:HB3	1.89	0.54
1:BU:181:LEU:HD11	1:BU:201:LEU:HD12	1.89	0.54
2:BV:159:LEU:HD13	2:BV:178:SER:HB2	1.88	0.54
12:Bf:460:ASP:OD1	12:Bf:460:ASP:N	2.38	0.54
15:BD:384:MET:O	15:BD:387:VAL:HG12	2.08	0.54
15:BD:384:MET:SD	16:BE:167:PRO:HG3	2.48	0.54
16:BE:50:LEU:CD1	17:BF:138:GLY:HA3	2.36	0.54
22:BJ:172:LEU:HA	22:BJ:175:ASN:HB3	1.90	0.54
3:AW:312:MET:SD	3:AW:361:HIS:ND1	2.73	0.54
3:AW:441:LYS:HA	3:AW:444:HIS:CE1	2.43	0.54
4:AX:174:SER:HA	4:AX:177:TYR:HD2	1.73	0.54
5:AY:349:LYS:O	5:AY:350:VAL:HG22	2.08	0.54
12:Af:259:PHE:CD2	12:Af:268:LEU:HD11	2.43	0.54
15:AD:384:MET:SD	16:AE:167:PRO:HG3	2.48	0.54
17:AF:230:GLY:HA2	17:AF:231:THR:HB	1.88	0.54
18:AC:330:LYS:O	18:AC:334:ARG:HG3	2.07	0.54
28:AP:170:ALA:O	28:AP:174:ALA:HB2	2.07	0.54
12:Bf:819:TYR:HB2	12:Bf:822:VAL:N	2.22	0.54
14:BB:255:LEU:HD12	14:BB:256:ILE:HG12	1.90	0.54
14:BB:324:ASP:N	14:BB:324:ASP:OD1	2.40	0.54
16:BE:174:GLY:O	16:BE:280:ASN:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:382:SER:O	1:AU:384:GLN:NE2	2.41	0.54
1:AU:623:GLY:HA2	1:AU:659:CYS:HB2	1.90	0.54
2:AV:285:TRP:O	2:AV:288:TYR:HB3	2.07	0.54
5:AY:71:ASN:HA	5:AY:74:LYS:HG2	1.89	0.54
8:Ab:117:VAL:HG22	8:Ab:119:ASP:H	1.73	0.54
12:Af:379:GLY:O	12:Af:383:ALA:CB	2.57	0.54
22:AJ:172:LEU:HA	22:AJ:175:ASN:HB3	1.90	0.54
23:AK:113:THR:HG21	23:AK:162:PHE:CG	2.43	0.54
27:AO:199:LEU:CD2	31:BS:175:VAL:C	2.58	0.54
30:AR:138:VAL:H	29:BQ:141:SER:HB2	1.72	0.54
3:BW:416:GLN:HB3	3:BW:418:PRO:HD3	1.90	0.54
10:Bd:26:LEU:HD11	10:Bd:54:ILE:HD12	1.89	0.54
12:Bf:242:GLU:O	12:Bf:246:SER:OG	2.21	0.54
12:Bf:466:LEU:HD22	12:Bf:481:SER:HA	1.88	0.54
12:Bf:486:GLY:O	12:Bf:490:ALA:HB3	2.08	0.54
12:Bf:767:GLY:HA2	12:Bf:811:LEU:HD11	1.89	0.54
13:BA:295:VAL:O	13:BA:299:MET:HG2	2.07	0.54
17:BF:192:ASP:HA	17:BF:195:ILE:HG22	1.90	0.54
20:BH:40:ALA:HB1	20:BH:182:LEU:H	1.73	0.54
24:BL:93:LEU:HA	24:BL:96:ARG:HB3	1.90	0.54
24:BL:215:VAL:HB	24:BL:221:PHE:HD1	1.72	0.54
2:AV:79:VAL:HG13	2:AV:80:LYS:N	2.22	0.53
3:AW:65:ARG:HB2	3:AW:66:ILE:HB	1.88	0.53
4:AX:161:ASP:HB2	20:AH:176:LYS:CB	2.38	0.53
10:Ad:159:PRO:N	10:Ad:160:ALA:HA	2.22	0.53
14:AB:232:LYS:N	35:AB:501:ADP:O3B	2.39	0.53
16:AE:178:THR:HG23	34:AE:401:ATP:H8	1.72	0.53
17:AF:406:ILE:HG22	17:AF:409:ARG:NH1	2.23	0.53
31:AS:157:ASN:HD21	28:BP:173:ASN:HA	1.72	0.53
3:BW:405:LYS:HA	4:BX:341:PRO:O	2.08	0.53
10:Bd:147:SER:HA	10:Bd:148:TYR:CB	2.38	0.53
16:BE:118:LEU:HD21	16:BE:225:HIS:CE1	2.42	0.53
16:BE:219:PHE:O	16:BE:223:ARG:HG3	2.08	0.53
18:BC:243:PRO:HB3	18:BC:288:ASN:HB3	1.90	0.53
25:BM:25:TYR:HD1	25:BM:28:LYS:HE3	1.73	0.53
25:BM:57:LEU:HB2	25:BM:58:TYR:CD2	2.42	0.53
27:BO:38:SER:OG	27:BO:40:ASN:OD1	2.26	0.53
3:AW:435:LEU:HD13	9:Ac:239:LYS:HE3	1.89	0.53
4:AX:198:ASN:OD1	18:AC:392:GLN:HG2	2.08	0.53
8:Ab:35:ILE:HD13	8:Ab:184:ILE:HD13	1.90	0.53
10:Ad:163:TYR:HA	10:Ad:166:PHE:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:593:THR:HA	12:Af:596:ASP:HB3	1.90	0.53
15:AD:81:ARG:CD	15:AD:82:ILE:CD1	2.86	0.53
25:AM:56:LYS:HE3	25:AM:57:LEU:O	2.08	0.53
5:BY:177:ARG:HH12	18:BC:337:ASN:ND2	1.90	0.53
12:Bf:351:THR:HA	12:Bf:352:HIS:HB2	1.88	0.53
15:BD:54:LEU:HA	15:BD:57:GLN:HB2	1.90	0.53
20:BH:231:ALA:H	20:BH:232:ALA:C	2.17	0.53
2:AV:160:LEU:HB2	2:AV:161:PRO:HD3	1.88	0.53
2:AV:213:TYR:HD1	2:AV:216:ARG:HD2	1.73	0.53
3:AW:62:SER:HB2	3:AW:71:VAL:HG11	1.90	0.53
3:AW:135:LYS:HB3	3:AW:136:ILE:C	2.33	0.53
10:Ad:26:LEU:HD11	10:Ad:54:ILE:HD12	1.88	0.53
12:Af:397:LYS:HZ1	12:Af:408:LEU:HD21	1.74	0.53
12:Af:427:THR:HB	12:Af:815:HIS:HD2	1.73	0.53
12:Af:479:LEU:HA	12:Af:517:VAL:CG1	2.38	0.53
13:AA:75:PRO:O	13:AA:79:ASP:HB2	2.08	0.53
17:AF:403:ALA:O	17:AF:407:ALA:HB2	2.07	0.53
21:AI:94:ALA:HB1	21:AI:105:ILE:HG21	1.90	0.53
23:AK:169:ALA:HB3	23:AK:178:GLN:HG2	1.89	0.53
24:AL:215:VAL:HB	24:AL:221:PHE:HD1	1.72	0.53
25:AM:25:TYR:HD1	25:AM:28:LYS:HE3	1.73	0.53
25:AM:68:ASN:ND2	25:AM:224:HIS:O	2.40	0.53
27:AO:199:LEU:HD23	31:BS:174:LEU:C	2.31	0.53
28:AP:148:GLY:HA3	31:BS:144:MET:HB3	1.90	0.53
29:AQ:162:LYS:CB	30:BR:141:ARG:NE	2.71	0.53
5:BY:349:LYS:O	5:BY:350:VAL:HG22	2.08	0.53
10:Bd:225:PHE:HB3	10:Bd:226:ALA:HB2	1.90	0.53
12:Bf:249:LEU:HA	12:Bf:252:ALA:HB3	1.91	0.53
12:Bf:573:ILE:HG12	12:Bf:577:LEU:HD13	1.90	0.53
13:BA:184:ILE:O	13:BA:188:ARG:HB2	2.09	0.53
16:BE:170:CYS:SG	16:BE:171:LEU:N	2.81	0.53
17:BF:212:PHE:O	17:BF:216:GLY:N	2.41	0.53
17:BF:299:GLU:HB3	17:BF:300:LYS:HB2	1.90	0.53
18:BC:164:VAL:HG21	18:BC:313:ARG:HG2	1.90	0.53
25:BM:56:LYS:HE3	25:BM:57:LEU:O	2.08	0.53
28:BP:170:ALA:O	28:BP:174:ALA:HB2	2.07	0.53
5:AY:34:ASP:OD1	5:AY:34:ASP:N	2.42	0.53
14:AB:261:GLY:C	14:AB:263:GLY:H	2.16	0.53
14:AB:324:ASP:N	14:AB:324:ASP:OD1	2.40	0.53
23:AK:52:LYS:HD3	23:AK:64:ILE:HB	1.90	0.53
26:AN:99:ILE:HD13	26:AN:126:ALA:HB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:159:GLN:O	27:BO:208:THR:CB	2.56	0.53
5:BY:109:GLU:HG2	5:BY:124:PHE:CE1	2.44	0.53
6:BZ:162:ILE:O	9:Bc:224:SER:OG	2.21	0.53
8:Bb:50:GLY:H	8:Bb:64:LEU:HD12	1.72	0.53
10:Bd:147:SER:OG	10:Bd:151:VAL:N	2.31	0.53
13:BA:327:LEU:O	13:BA:331:LEU:N	2.41	0.53
16:BE:308:ALA:O	16:BE:312:ILE:HG22	2.08	0.53
17:BF:99:VAL:HG23	17:BF:118:LYS:HA	1.90	0.53
19:BG:158:GLY:O	20:BH:84:ARG:NH2	2.40	0.53
20:BH:46:LEU:HD13	20:BH:75:VAL:HG22	1.89	0.53
23:BK:52:LYS:HD3	23:BK:64:ILE:HB	1.90	0.53
1:AU:800:VAL:HG21	1:AU:914:LEU:HD21	1.90	0.53
2:AV:475:ALA:O	2:AV:479:ARG:HG2	2.08	0.53
3:AW:247:TYR:O	3:AW:250:ILE:HG13	2.08	0.53
3:AW:416:GLN:HB3	3:AW:418:PRO:HD3	1.90	0.53
9:Ac:131:GLN:HA	9:Ac:134:GLU:HG2	1.91	0.53
9:Ac:156:VAL:HG12	9:Ac:157:ILE:H	1.72	0.53
12:Af:709:THR:HA	12:Af:712:LYS:NZ	2.24	0.53
12:Af:819:TYR:HB2	12:Af:822:VAL:N	2.22	0.53
12:Af:819:TYR:HB3	12:Af:822:VAL:HG23	1.90	0.53
15:AD:114:ARG:HH21	18:AC:62:GLU:CG	2.21	0.53
18:AC:243:PRO:HB3	18:AC:288:ASN:HB3	1.90	0.53
24:AL:224:TYR:HD1	24:AL:228:ASP:HB3	1.73	0.53
31:AS:174:LEU:HD23	27:BO:202:TYR:CE1	2.44	0.53
3:BW:86:ASN:HB3	3:BW:88:MET:HG3	1.90	0.53
5:BY:34:ASP:N	5:BY:34:ASP:OD1	2.42	0.53
12:Bf:220:ASP:O	12:Bf:221:ILE:HG22	2.09	0.53
14:BB:100:ASP:CB	14:BB:103:ARG:NH1	2.54	0.53
14:BB:232:LYS:N	35:BB:501:ADP:O3B	2.39	0.53
15:BD:81:ARG:CD	15:BD:82:ILE:HD11	2.39	0.53
15:BD:114:ARG:HH21	18:BC:62:GLU:CG	2.21	0.53
19:BG:81:THR:OG1	19:BG:137:CYS:HB3	2.08	0.53
21:BI:174:MET:HE2	21:BI:199:LYS:HD3	1.91	0.53
23:BK:16:SER:N	23:BK:20:ARG:O	2.42	0.53
4:AX:172:LEU:HD12	4:AX:175:LYS:HD3	1.89	0.53
5:AY:170:GLU:N	5:AY:171:GLY:HA3	2.23	0.53
6:AZ:56:VAL:HA	6:AZ:74:TYR:HE2	1.73	0.53
12:Af:684:PRO:O	12:Af:685:THR:HG22	2.09	0.53
13:AA:206:ILE:HG12	17:AF:404:GLY:HA3	1.89	0.53
13:AA:327:LEU:O	13:AA:331:LEU:N	2.41	0.53
15:AD:54:LEU:HA	15:AD:57:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AK:41:GLN:N	23:AK:166:ASP:O	2.35	0.53
31:AS:168:LEU:O	31:AS:172:MET:HG2	2.07	0.53
1:BU:382:SER:O	1:BU:384:GLN:NE2	2.41	0.53
6:BZ:101:LEU:HD23	6:BZ:123:ILE:HD11	1.89	0.53
8:Bb:117:VAL:HG22	8:Bb:119:ASP:H	1.73	0.53
9:Bc:216:MET:O	9:Bc:220:LEU:HD13	2.08	0.53
12:Bf:427:THR:HB	12:Bf:815:HIS:HD2	1.73	0.53
17:BF:204:LEU:HB2	17:BF:212:PHE:HZ	1.74	0.53
17:BF:406:ILE:HG22	17:BF:409:ARG:NH1	2.23	0.53
18:BC:42:LEU:O	18:BC:45:LEU:HB2	2.08	0.53
23:BK:113:THR:HG21	23:BK:162:PHE:CG	2.43	0.53
2:AV:275:VAL:HB	2:AV:277:PRO:HD3	1.91	0.53
12:Af:494:ARG:N	12:Af:495:GLU:HB2	2.24	0.53
13:AA:232:ARG:NH2	13:AA:235:ALA:O	2.42	0.53
13:AA:232:ARG:HH11	13:AA:233:THR:H	1.54	0.53
16:AE:182:LEU:CD1	34:AE:401:ATP:H2'	2.35	0.53
17:AF:70:LYS:O	17:AF:73:ILE:HG13	2.08	0.53
17:AF:94:ILE:HB	17:AF:123:VAL:HB	1.91	0.53
18:AC:304:ALA:HA	18:AC:307:ARG:HB2	1.91	0.53
19:AG:81:THR:OG1	19:AG:137:CYS:HB3	2.08	0.53
20:AH:167:TYR:O	20:AH:171:LYS:CB	2.53	0.53
21:AI:92:LEU:HD21	21:AI:96:ARG:HH21	1.74	0.53
30:AR:136:TYR:O	30:AR:140:ASP:HB2	2.09	0.53
30:AR:138:VAL:N	29:BQ:141:SER:HB2	2.24	0.53
3:BW:135:LYS:HB3	3:BW:136:ILE:C	2.33	0.53
3:BW:422:ASN:ND2	6:BZ:247:LYS:O	2.41	0.53
12:Bf:494:ARG:N	12:Bf:495:GLU:HB2	2.24	0.53
12:Bf:680:ARG:HB3	13:BA:74:PRO:CB	2.35	0.53
12:Bf:684:PRO:O	12:Bf:685:THR:HG22	2.09	0.53
17:BF:81:LYS:O	17:BF:85:THR:HG22	2.08	0.53
29:BQ:17:SER:O	29:BQ:179:SER:N	2.42	0.53
1:AU:388:ASP:OD1	1:AU:389:ASN:ND2	2.42	0.53
1:AU:844:LYS:HD3	1:AU:881:PRO:HD3	1.91	0.53
3:AW:136:ILE:CD1	15:AD:392:TYR:CD1	2.84	0.53
4:AX:130:GLU:HB3	4:AX:153:LEU:HD21	1.90	0.53
8:Ab:20:ASP:OD2	8:Ab:25:ARG:NH2	2.30	0.53
8:Ab:50:GLY:H	8:Ab:64:LEU:HD12	1.72	0.53
16:AE:244:SER:H	17:AF:299:GLU:HB2	1.74	0.53
16:AE:310:LEU:O	16:AE:314:LYS:HG2	2.08	0.53
16:AE:326:ILE:HD12	16:AE:326:ILE:O	2.09	0.53
23:AK:209:LYS:O	23:AK:214:ASN:ND2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AM:43:ASP:OD1	25:AM:43:ASP:N	2.40	0.53
2:BV:275:VAL:HB	2:BV:277:PRO:HD3	1.91	0.53
5:BY:71:ASN:HA	5:BY:74:LYS:HG2	1.89	0.53
5:BY:97:GLU:OE2	18:BC:162:LYS:CD	2.53	0.53
7:Ba:312:MET:HA	7:Ba:315:LEU:HD12	1.91	0.53
12:Bf:593:THR:HA	12:Bf:596:ASP:HB3	1.90	0.53
16:BE:178:THR:HG23	34:BE:401:ATP:H8	1.72	0.53
23:BK:225:ASN:HA	23:BK:227:HIS:HB3	1.91	0.53
26:BN:99:ILE:HD13	26:BN:126:ALA:HB1	1.91	0.53
1:AU:185:MET:HE3	1:AU:628:ARG:HH12	1.74	0.53
3:AW:373:ILE:HG12	3:AW:374:THR:O	2.09	0.53
10:Ad:225:PHE:HB3	10:Ad:226:ALA:HB2	1.90	0.53
15:AD:81:ARG:CD	15:AD:82:ILE:HD11	2.39	0.53
16:AE:69:PHE:O	16:AE:80:VAL:HA	2.09	0.53
17:AF:99:VAL:HG23	17:AF:118:LYS:HA	1.90	0.53
18:AC:164:VAL:HG21	18:AC:313:ARG:HG2	1.90	0.53
22:AJ:12:PRO:HA	23:AK:26:TYR:CG	2.43	0.53
22:AJ:17:PHE:O	22:AJ:21:TYR:HB3	2.09	0.53
24:AL:93:LEU:HA	24:AL:96:ARG:HB3	1.90	0.53
26:AN:29:ARG:NH2	32:BT:179:ARG:N	2.50	0.53
29:AQ:107:TYR:CE2	29:AQ:185:LYS:HA	2.44	0.53
6:BZ:176:LEU:HB2	9:Bc:218:LEU:HD12	1.91	0.53
7:Ba:34:TRP:CD1	8:Bb:19:GLY:H	2.27	0.53
9:Bc:88:ASP:HB3	9:Bc:91:PHE:HB3	1.91	0.53
9:Bc:280:PRO:HG2	15:BD:121:ARG:HG2	1.90	0.53
11:Be:63:HIS:HA	11:Be:66:LYS:HE2	1.91	0.53
12:Bf:259:PHE:CD2	12:Bf:268:LEU:HD11	2.43	0.53
12:Bf:479:LEU:HA	12:Bf:517:VAL:CG1	2.38	0.53
12:Bf:819:TYR:HB3	12:Bf:822:VAL:HG23	1.90	0.53
13:BA:232:ARG:NH2	13:BA:235:ALA:O	2.42	0.53
14:BB:232:LYS:HB3	35:BB:501:ADP:O5'	2.09	0.53
15:BD:218:ALA:O	15:BD:222:HIS:ND1	2.42	0.53
16:BE:244:SER:H	17:BF:299:GLU:HB2	1.74	0.53
23:BK:209:LYS:O	23:BK:214:ASN:ND2	2.42	0.53
12:Af:220:ASP:O	12:Af:221:ILE:HG22	2.09	0.53
16:AE:174:GLY:O	16:AE:280:ASN:HA	2.08	0.53
16:AE:308:ALA:O	16:AE:312:ILE:HG22	2.08	0.53
17:AF:204:LEU:HB2	17:AF:212:PHE:HZ	1.74	0.53
18:AC:134:LEU:HD13	18:AC:223:PHE:HB2	1.91	0.53
20:AH:40:ALA:HB1	20:AH:182:LEU:H	1.73	0.53
3:BW:247:TYR:O	3:BW:250:ILE:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:542:ILE:HG12	12:Bf:558:LEU:HD22	1.90	0.53
14:BB:222:VAL:HG22	14:BB:328:ILE:HG12	1.92	0.53
18:BC:132:ASP:O	18:BC:135:VAL:N	2.42	0.53
25:BM:43:ASP:OD1	25:BM:43:ASP:N	2.40	0.53
1:AU:61:ALA:HB1	1:AU:80:TYR:HB3	1.91	0.52
1:AU:208:LEU:HD23	1:AU:210:LYS:H	1.75	0.52
6:AZ:176:LEU:HB2	9:Ac:218:LEU:HD12	1.91	0.52
7:Aa:34:TRP:CD1	8:Ab:19:GLY:H	2.27	0.52
12:Af:390:LEU:HD23	12:Af:408:LEU:HA	1.91	0.52
13:AA:184:ILE:O	13:AA:188:ARG:HB2	2.09	0.52
13:AA:206:ILE:N	17:AF:373:MET:SD	2.64	0.52
13:AA:416:VAL:HA	13:AA:420:TYR:HD2	1.74	0.52
15:AD:218:ALA:O	15:AD:222:HIS:ND1	2.42	0.52
15:AD:384:MET:O	15:AD:387:VAL:HG12	2.08	0.52
17:AF:299:GLU:HB3	17:AF:300:LYS:HB2	1.90	0.52
17:AF:364:ARG:O	17:AF:368:ILE:HG12	2.09	0.52
18:AC:268:GLU:HA	18:AC:271:ARG:HB3	1.91	0.52
25:AM:195:LYS:O	25:AM:199:ILE:HB	2.09	0.52
27:AO:41:ILE:HG12	27:AO:102:GLY:HA3	1.90	0.52
29:AQ:166:GLU:HG3	30:BR:141:ARG:HB2	1.91	0.52
1:BU:61:ALA:HB1	1:BU:80:TYR:HB3	1.91	0.52
2:BV:213:TYR:HD1	2:BV:216:ARG:HD2	1.73	0.52
12:Bf:586:PRO:O	12:Bf:623:LYS:NZ	2.35	0.52
16:BE:157:GLU:HA	16:BE:160:GLN:HG2	1.90	0.52
16:BE:174:GLY:C	16:BE:176:PRO:HD2	2.35	0.52
17:BF:438:TYR:O	24:BL:62:LYS:NZ	2.40	0.52
7:Aa:312:MET:HA	7:Aa:315:LEU:HD12	1.91	0.52
9:Ac:154:LYS:HD2	15:AD:81:ARG:NH2	2.23	0.52
14:AB:232:LYS:HB3	35:AB:501:ADP:O5'	2.09	0.52
20:AH:231:ALA:H	20:AH:232:ALA:C	2.17	0.52
28:AP:172:LEU:C	31:BS:157:ASN:HD21	2.10	0.52
1:BU:623:GLY:HA2	1:BU:659:CYS:HB2	1.90	0.52
1:BU:800:VAL:HG21	1:BU:914:LEU:HD21	1.90	0.52
2:BV:440:LYS:NZ	10:Bd:143:LEU:O	2.42	0.52
3:BW:61:VAL:O	3:BW:64:SER:OG	2.27	0.52
7:Ba:14:SER:HB2	7:Ba:18:GLN:CG	2.30	0.52
10:Bd:163:TYR:HA	10:Bd:166:PHE:HD2	1.72	0.52
12:Bf:379:GLY:O	12:Bf:383:ALA:CB	2.57	0.52
12:Bf:509:LYS:HG2	12:Bf:515:ALA:HB3	1.89	0.52
12:Bf:709:THR:HA	12:Bf:712:LYS:NZ	2.24	0.52
14:BB:251:VAL:HG22	14:BB:285:ASP:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BF:70:LYS:O	17:BF:73:ILE:HG13	2.08	0.52
18:BC:66:LEU:CG	18:BC:70:GLY:HA2	2.26	0.52
18:BC:134:LEU:HD13	18:BC:223:PHE:HB2	1.91	0.52
22:BJ:12:PRO:HA	23:BK:26:TYR:CG	2.43	0.52
1:AU:118:LEU:HD21	1:AU:123:LYS:HA	1.92	0.52
3:AW:359:VAL:O	3:AW:363:ILE:HG12	2.09	0.52
7:Aa:28:LEU:HD23	7:Aa:37:LEU:HA	1.91	0.52
13:AA:418:LYS:O	13:AA:422:LYS:HG3	2.09	0.52
14:AB:141:LYS:HA	14:AB:144:LEU:HG	1.92	0.52
16:AE:50:LEU:HD13	17:AF:138:GLY:CA	2.39	0.52
16:AE:157:GLU:HA	16:AE:160:GLN:HG2	1.90	0.52
17:AF:192:ASP:HA	17:AF:195:ILE:HG22	1.90	0.52
21:AI:174:MET:HE2	21:AI:199:LYS:HD3	1.91	0.52
27:AO:141:LYS:NZ	27:AO:157:GLU:OE2	2.42	0.52
28:AP:169:GLN:HB3	31:BS:151:ASN:HD21	1.73	0.52
29:AQ:137:PHE:CB	30:BR:133:VAL:HG23	2.31	0.52
29:AQ:141:SER:HB2	30:BR:138:VAL:H	1.74	0.52
3:BW:359:VAL:O	3:BW:363:ILE:HG12	2.09	0.52
3:BW:420:ASP:HB2	3:BW:425:LEU:HD12	1.91	0.52
9:Bc:57:MET:HE1	9:Bc:141:VAL:HB	1.90	0.52
10:Bd:254:GLU:HA	10:Bd:257:VAL:HG23	1.91	0.52
12:Bf:466:LEU:HB3	12:Bf:481:SER:OG	2.10	0.52
14:BB:218:PRO:HB2	14:BB:346:ARG:NH1	2.24	0.52
17:BF:86:LEU:C	17:BF:88:TYR:N	2.68	0.52
25:BM:68:ASN:ND2	25:BM:224:HIS:O	2.40	0.52
2:AV:255:LEU:CD2	2:AV:291:TYR:HB3	2.39	0.52
7:Aa:35:HIS:CE1	8:Ab:17:ARG:HB2	2.45	0.52
9:Ac:64:ASP:HA	9:Ac:139:ARG:HE	1.74	0.52
10:Ad:215:TRP:CG	10:Ad:216:VAL:N	2.77	0.52
12:Af:249:LEU:HA	12:Af:252:ALA:HB3	1.91	0.52
15:AD:154:LEU:O	15:AD:155:THR:OG1	2.24	0.52
16:AE:219:PHE:O	16:AE:223:ARG:HG3	2.08	0.52
16:AE:250:ASP:O	16:AE:254:GLN:HG2	2.10	0.52
18:AC:277:LEU:O	18:AC:281:ASP:HB3	2.09	0.52
19:AG:175:SER:HB2	19:AG:205:VAL:HG21	1.91	0.52
29:AQ:17:SER:O	29:AQ:179:SER:N	2.42	0.52
31:AS:213:ASP:HB3	27:BO:193:ASN:HD21	1.73	0.52
8:Bb:35:ILE:HD13	8:Bb:184:ILE:HD13	1.90	0.52
9:Bc:37:ALA:O	9:Bc:41:MET:HG2	2.10	0.52
12:Bf:390:LEU:HD23	12:Bf:408:LEU:HA	1.91	0.52
12:Bf:550:LEU:CD1	12:Bf:551:LYS:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:92:PRO:O	13:BA:93:LEU:HB2	2.07	0.52
14:BB:170:LEU:O	14:BB:173:VAL:HG22	2.10	0.52
18:BC:268:GLU:HA	18:BC:271:ARG:HB3	1.91	0.52
18:BC:304:ALA:HA	18:BC:307:ARG:HB2	1.91	0.52
19:BG:175:SER:HB2	19:BG:205:VAL:HG21	1.91	0.52
29:BQ:107:TYR:CE2	29:BQ:185:LYS:HA	2.44	0.52
5:AY:381:GLN:HB3	5:AY:385:ARG:NH1	2.23	0.52
10:Ad:40:GLY:HA3	10:Ad:41:THR:C	2.35	0.52
12:Af:542:ILE:HG12	12:Af:558:LEU:HD22	1.90	0.52
13:AA:283:ALA:HB3	13:AA:326:THR:HB	1.90	0.52
15:AD:282:ASP:OD1	16:AE:251:ARG:NH2	2.43	0.52
18:AC:132:ASP:O	18:AC:135:VAL:N	2.42	0.52
22:AJ:220:LEU:HD13	22:AJ:224:GLU:HB2	1.91	0.52
1:BU:388:ASP:OD1	1:BU:389:ASN:ND2	2.42	0.52
2:BV:252:ASN:ND2	2:BV:284:GLU:OE2	2.43	0.52
4:BX:198:ASN:OD1	18:BC:392:GLN:HG2	2.08	0.52
9:Bc:154:LYS:HD2	15:BD:81:ARG:NH2	2.23	0.52
16:BE:326:ILE:HD12	16:BE:326:ILE:O	2.09	0.52
17:BF:364:ARG:O	17:BF:368:ILE:HG12	2.09	0.52
22:BJ:145:TYR:CE1	22:BJ:155:ALA:HB2	2.45	0.52
23:BK:177:ALA:O	23:BK:181:LEU:CB	2.57	0.52
23:BK:221:GLN:OE1	23:BK:227:HIS:NE2	2.42	0.52
24:BL:36:VAL:HG22	24:BL:160:SER:HB2	1.90	0.52
30:BR:136:TYR:O	30:BR:140:ASP:HB2	2.09	0.52
31:BS:63:THR:OG1	32:BT:94:ARG:NH1	2.40	0.52
2:AV:269:LYS:HE2	2:AV:295:ILE:HG13	1.92	0.52
2:AV:284:GLU:HG2	2:AV:287:ARG:HE	1.74	0.52
12:Af:605:ASN:C	12:Af:607:LEU:H	2.18	0.52
12:Af:680:ARG:HB3	13:AA:74:PRO:CB	2.35	0.52
12:Af:763:ARG:HD2	12:Af:808:ASN:HB3	1.92	0.52
16:AE:207:TYR:HB2	16:AE:208:ILE:HD12	1.92	0.52
17:AF:438:TYR:O	24:AL:62:LYS:NZ	2.40	0.52
23:AK:16:SER:N	23:AK:20:ARG:O	2.42	0.52
23:AK:177:ALA:O	23:AK:181:LEU:CB	2.57	0.52
2:BV:269:LYS:HE2	2:BV:295:ILE:HG13	1.92	0.52
2:BV:284:GLU:HG2	2:BV:287:ARG:HE	1.74	0.52
2:BV:287:ARG:HD2	11:Be:5:LYS:HB2	1.90	0.52
3:BW:377:ARG:NH2	7:Ba:308:GLU:OE2	2.41	0.52
5:BY:102:ASP:HA	5:BY:105:MET:HG2	1.92	0.52
5:BY:296:VAL:O	5:BY:300:ARG:HG3	2.10	0.52
8:Bb:91:ARG:HH22	8:Bb:130:ARG:HG2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bd:40:GLY:HA3	10:Bd:41:THR:C	2.35	0.52
14:BB:217:LYS:HG2	14:BB:219:PRO:HD3	1.92	0.52
17:BF:94:ILE:HB	17:BF:123:VAL:HB	1.91	0.52
21:BI:159:TRP:HB3	22:BJ:54:GLN:OE1	2.10	0.52
26:BN:151:GLU:O	26:BN:155:PHE:HB2	2.10	0.52
1:AU:141:CYS:SG	18:AC:13:GLU:HG2	2.50	0.52
1:AU:377:HIS:O	1:AU:380:THR:HG22	2.09	0.52
2:AV:252:ASN:ND2	2:AV:284:GLU:OE2	2.43	0.52
4:AX:194:ARG:HB3	18:AC:385:MET:SD	2.50	0.52
5:AY:109:GLU:HG2	5:AY:124:PHE:CE1	2.44	0.52
5:AY:326:GLY:HA2	5:AY:329:PHE:HD2	1.74	0.52
12:Af:595:VAL:O	12:Af:599:ALA:CB	2.58	0.52
12:Af:621:ASP:C	12:Af:623:LYS:H	2.17	0.52
12:Af:692:LEU:HD21	12:Af:724:ASN:HB3	1.92	0.52
13:AA:246:VAL:HG13	13:AA:280:ILE:HG22	1.92	0.52
14:AB:255:LEU:HD12	14:AB:256:ILE:HG12	1.90	0.52
16:AE:153:LEU:HD13	16:AE:227:PRO:HG3	1.91	0.52
19:AG:185:LYS:HG3	19:AG:187:PHE:H	1.75	0.52
31:AS:159:GLN:HB3	27:BO:208:THR:OG1	1.90	0.52
1:BU:844:LYS:HD3	1:BU:881:PRO:HD3	1.91	0.52
3:BW:135:LYS:HB3	3:BW:136:ILE:HB	1.92	0.52
4:BX:281:GLY:H	4:BX:284:THR:HG22	1.75	0.52
6:BZ:9:VAL:HG12	6:BZ:48:LEU:HB3	1.92	0.52
12:Bf:476:THR:HG23	12:Bf:848:GLN:CD	2.35	0.52
12:Bf:747:GLN:HE22	14:BB:117:ASP:CB	2.23	0.52
12:Bf:805:ASP:OD1	12:Bf:806:VAL:N	2.43	0.52
12:Bf:821:LEU:N	12:Bf:822:VAL:HA	2.25	0.52
13:BA:315:ILE:HD12	13:BA:316:LYS:O	2.09	0.52
14:BB:141:LYS:HA	14:BB:144:LEU:HG	1.92	0.52
14:BB:249:ARG:HG3	14:BB:283:PHE:HD2	1.74	0.52
15:BD:133:HIS:CE1	18:BC:67:GLN:OE1	2.63	0.52
18:BC:231:VAL:HG11	18:BC:272:THR:HG23	1.92	0.52
21:BI:12:PHE:HB2	22:BJ:21:TYR:HE2	1.75	0.52
25:BM:195:LYS:O	25:BM:199:ILE:HB	2.09	0.52
3:AW:136:ILE:HG13	15:AD:392:TYR:CD1	2.36	0.52
9:Ac:37:ALA:O	9:Ac:41:MET:HG2	2.10	0.52
9:Ac:57:MET:HE1	9:Ac:141:VAL:HB	1.90	0.52
12:Af:593:THR:O	12:Af:597:VAL:HG12	2.09	0.52
14:AB:218:PRO:HB2	14:AB:346:ARG:NH1	2.24	0.52
14:AB:249:ARG:NH2	14:AB:251:VAL:HB	2.25	0.52
16:AE:174:GLY:C	16:AE:176:PRO:HD2	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AG:158:GLY:O	20:AH:84:ARG:NH2	2.40	0.52
21:AI:159:TRP:HB3	22:AJ:54:GLN:OE1	2.10	0.52
23:AK:121:LEU:HD22	23:AK:123:PHE:HE2	1.75	0.52
31:AS:144:MET:HB3	28:BP:148:GLY:HA3	1.91	0.52
31:AS:181:SER:N	27:BO:195:LYS:CE	2.73	0.52
1:BU:233:LEU:HD13	1:BU:268:LEU:HD21	1.89	0.52
1:BU:377:HIS:O	1:BU:380:THR:HG22	2.10	0.52
2:BV:143:ALA:HB3	2:BV:145:LEU:HB3	1.92	0.52
3:BW:373:ILE:HG12	3:BW:374:THR:O	2.09	0.52
5:BY:326:GLY:HA2	5:BY:329:PHE:HD2	1.74	0.52
6:BZ:225:GLN:HE22	6:BZ:229:GLN:HB2	1.75	0.52
12:Bf:352:HIS:NE2	12:Bf:567:LEU:HB2	2.25	0.52
12:Bf:593:THR:O	12:Bf:597:VAL:HG12	2.09	0.52
13:BA:364:VAL:HG13	13:BA:368:ILE:HD12	1.92	0.52
16:BE:50:LEU:HD13	17:BF:138:GLY:CA	2.39	0.52
18:BC:223:PHE:CD2	18:BC:224:ILE:HG13	2.45	0.52
20:BH:167:TYR:O	20:BH:171:LYS:CB	2.53	0.52
21:BI:94:ALA:HB1	21:BI:105:ILE:HG21	1.90	0.52
22:BJ:17:PHE:O	22:BJ:21:TYR:HB3	2.09	0.52
22:BJ:220:LEU:HD13	22:BJ:224:GLU:HB2	1.91	0.52
25:BM:213:LEU:O	25:BM:226:ILE:HG13	2.09	0.52
4:AX:281:GLY:H	4:AX:284:THR:HG22	1.74	0.52
9:Ac:88:ASP:HB3	9:Ac:91:PHE:HB3	1.91	0.52
10:Ad:254:GLU:HA	10:Ad:257:VAL:HG23	1.91	0.52
12:Af:473:ASN:HD21	12:Af:514:VAL:HG13	1.75	0.52
13:AA:364:VAL:HG13	13:AA:368:ILE:HD12	1.92	0.52
14:AB:251:VAL:HG22	14:AB:285:ASP:N	2.25	0.52
15:AD:82:ILE:N	15:AD:82:ILE:CD1	2.73	0.52
18:AC:231:VAL:HG11	18:AC:272:THR:HG23	1.92	0.52
21:AI:12:PHE:HB2	22:AJ:21:TYR:HE2	1.75	0.52
23:AK:154:PHE:HB3	23:AK:162:PHE:HE1	1.75	0.52
26:AN:151:GLU:O	26:AN:155:PHE:HB2	2.10	0.52
1:BU:185:MET:HE3	1:BU:628:ARG:HH12	1.74	0.52
9:Bc:229:LEU:O	9:Bc:230:THR:OG1	2.24	0.52
15:BD:154:LEU:HD23	15:BD:155:THR:H	1.75	0.52
15:BD:282:ASP:OD1	16:BE:251:ARG:NH2	2.43	0.52
16:BE:69:PHE:O	16:BE:80:VAL:HA	2.09	0.52
16:BE:367:PHE:O	16:BE:371:VAL:CB	2.41	0.52
19:BG:29:PHE:HA	19:BG:32:ILE:HD12	1.92	0.52
29:BQ:56:PHE:CZ	29:BQ:98:TYR:HD2	2.28	0.52
2:AV:143:ALA:HB3	2:AV:145:LEU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:194:LYS:O	2:AV:242:HIS:NE2	2.32	0.52
9:Ac:154:LYS:CD	15:AD:81:ARG:NH2	2.73	0.52
11:Ae:63:HIS:HA	11:Ae:66:LYS:HE2	1.91	0.52
12:Af:805:ASP:OD1	12:Af:806:VAL:N	2.43	0.52
14:AB:170:LEU:O	14:AB:173:VAL:HG22	2.10	0.52
15:AD:270:ILE:HA	16:AE:251:ARG:HH21	1.75	0.52
16:AE:55:GLN:N	17:AF:133:PHE:O	2.43	0.52
16:AE:309:ARG:HG3	16:AE:343:LEU:HD22	1.92	0.52
18:AC:346:LYS:O	18:AC:350:LEU:HD12	2.04	0.52
23:AK:221:GLN:OE1	23:AK:227:HIS:NE2	2.42	0.52
23:AK:225:ASN:HA	23:AK:227:HIS:HB3	1.91	0.52
24:AL:36:VAL:HG22	24:AL:160:SER:HB2	1.90	0.52
29:AQ:162:LYS:CB	30:BR:141:ARG:CZ	2.88	0.52
30:AR:140:ASP:CB	29:BQ:166:GLU:CD	2.76	0.52
1:BU:118:LEU:HD21	1:BU:123:LYS:HA	1.91	0.52
1:BU:208:LEU:HD23	1:BU:210:LYS:H	1.75	0.52
5:BY:131:THR:HG21	5:BY:136:HIS:HB2	1.92	0.52
6:BZ:68:TRP:HH2	6:BZ:111:LEU:HB2	1.75	0.52
9:Bc:131:GLN:HA	9:Bc:134:GLU:HG2	1.91	0.52
9:Bc:154:LYS:CD	15:BD:81:ARG:NH2	2.73	0.52
12:Bf:595:VAL:O	12:Bf:599:ALA:CB	2.58	0.52
17:BF:229:PRO:O	17:BF:392:ASN:ND2	2.44	0.52
20:BH:111:VAL:HG21	20:BH:147:PHE:CD2	2.45	0.52
1:AU:596:ASN:O	1:AU:599:ILE:HG22	2.11	0.51
1:AU:625:ILE:HG13	1:AU:626:LEU:HG	1.92	0.51
2:AV:287:ARG:HD2	11:Ae:5:LYS:HB2	1.90	0.51
3:AW:135:LYS:HB3	3:AW:136:ILE:HB	1.92	0.51
10:Ad:140:GLU:HG3	10:Ad:144:MET:HE3	1.92	0.51
12:Af:476:THR:HG23	12:Af:848:GLN:CD	2.35	0.51
14:AB:217:LYS:HG2	14:AB:219:PRO:HD3	1.92	0.51
17:AF:261:ILE:HG22	17:AF:305:GLU:OE2	2.11	0.51
21:AI:140:ASP:OD2	21:AI:146:GLN:NE2	2.43	0.51
29:AQ:84:THR:HG21	29:AQ:104:LEU:HD11	1.93	0.51
1:BU:141:CYS:SG	18:BC:13:GLU:HG2	2.50	0.51
1:BU:808:PRO:HD3	1:BU:836:THR:HB	1.93	0.51
4:BX:194:ARG:HB3	18:BC:385:MET:SD	2.50	0.51
12:Bf:687:ARG:HH12	13:BA:78:TRP:HB2	1.72	0.51
13:BA:83:ASP:CG	14:BB:137:SER:OG	2.53	0.51
13:BA:418:LYS:O	13:BA:422:LYS:HG3	2.09	0.51
14:BB:249:ARG:NH2	14:BB:251:VAL:HB	2.25	0.51
23:BK:121:LEU:HD22	23:BK:123:PHE:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BP:145:GLN:N	28:BP:145:GLN:OE1	2.42	0.51
1:AU:32:ASN:OD1	1:AU:33:ASP:N	2.43	0.51
3:AW:377:ARG:HH21	7:Aa:308:GLU:CD	2.18	0.51
3:AW:405:LYS:HA	4:AX:341:PRO:O	2.08	0.51
8:Ab:91:ARG:HH22	8:Ab:130:ARG:HG2	1.74	0.51
12:Af:352:HIS:NE2	12:Af:567:LEU:HB2	2.25	0.51
12:Af:485:LEU:HG	12:Af:496:ASP:OD2	2.11	0.51
18:AC:223:PHE:CD2	18:AC:224:ILE:HG13	2.45	0.51
28:AP:177:ARG:CG	30:BR:26:ILE:CB	2.85	0.51
12:Bf:605:ASN:C	12:Bf:607:LEU:H	2.18	0.51
13:BA:246:VAL:HG13	13:BA:280:ILE:HG22	1.92	0.51
15:BD:337:ASP:O	15:BD:341:LYS:N	2.31	0.51
16:BE:182:LEU:CD1	34:BE:401:ATP:H2'	2.35	0.51
16:BE:194:ASN:HB2	16:BE:227:PRO:O	2.10	0.51
16:BE:207:TYR:HB2	16:BE:208:ILE:HD12	1.92	0.51
27:BO:6:VAL:HG23	27:BO:124:TYR:HB3	1.92	0.51
27:BO:141:LYS:NZ	27:BO:157:GLU:OE2	2.43	0.51
29:BQ:84:THR:HG21	29:BQ:104:LEU:HD11	1.93	0.51
29:BQ:139:THR:HG22	29:BQ:163:CYS:SG	2.51	0.51
3:AW:377:ARG:NH2	7:Aa:308:GLU:OE2	2.41	0.51
6:AZ:225:GLN:HE22	6:AZ:229:GLN:HB2	1.75	0.51
10:Ad:145:GLU:N	10:Ad:146:GLY:HA2	2.26	0.51
12:Af:460:ASP:OD1	12:Af:460:ASP:N	2.38	0.51
14:AB:324:ASP:HB2	14:AB:326:LYS:HD3	1.92	0.51
15:AD:154:LEU:HD23	15:AD:155:THR:H	1.75	0.51
15:AD:283:ARG:HA	15:AD:286:GLN:HG2	1.92	0.51
22:AJ:145:TYR:CE1	22:AJ:155:ALA:HB2	2.45	0.51
25:AM:213:LEU:O	25:AM:226:ILE:HG13	2.09	0.51
29:AQ:56:PHE:CZ	29:AQ:98:TYR:HD2	2.28	0.51
29:AQ:145:ARG:HH22	30:BR:199:TYR:HD1	1.58	0.51
30:AR:166:ARG:O	28:BP:34:MET:CB	2.57	0.51
2:BV:349:ARG:HD2	2:BV:354:LYS:HD3	1.92	0.51
3:BW:75:TYR:HD1	3:BW:78:LYS:HE2	1.76	0.51
9:Bc:64:ASP:HA	9:Bc:139:ARG:HE	1.74	0.51
9:Bc:295:ASN:HA	9:Bc:298:GLN:HG2	1.93	0.51
12:Bf:485:LEU:HG	12:Bf:496:ASP:OD2	2.10	0.51
12:Bf:692:LEU:HD21	12:Bf:724:ASN:HB3	1.92	0.51
15:BD:283:ARG:HA	15:BD:286:GLN:HG2	1.92	0.51
15:BD:296:MET:SD	15:BD:326:ARG:HB3	2.50	0.51
16:BE:126:ASP:OD1	16:BE:185:ARG:NE	2.44	0.51
21:BI:140:ASP:OD2	21:BI:146:GLN:NE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BJ:36:ARG:HB3	22:BJ:144:LEU:HD23	1.93	0.51
1:AU:243:LEU:O	1:AU:913:ILE:HG21	2.10	0.51
12:Af:747:GLN:HE22	14:AB:117:ASP:CB	2.23	0.51
13:AA:339:ARG:NH2	17:AF:402:GLU:OE1	2.44	0.51
14:AB:103:ARG:O	14:AB:103:ARG:HD2	2.10	0.51
14:AB:222:VAL:HG22	14:AB:328:ILE:HG12	1.92	0.51
14:AB:298:ASN:ND2	16:AE:246:GLY:HA2	2.25	0.51
15:AD:296:MET:SD	15:AD:326:ARG:HB3	2.50	0.51
28:AP:145:GLN:OE1	28:AP:145:GLN:N	2.42	0.51
31:AS:72:LEU:HD23	31:AS:83:MET:SD	2.50	0.51
31:AS:159:GLN:C	27:BO:208:THR:OG1	2.53	0.51
2:BV:144:ASP:OD1	2:BV:150:ARG:NH2	2.31	0.51
5:BY:381:GLN:HB3	5:BY:385:ARG:NH1	2.23	0.51
7:Ba:28:LEU:HD23	7:Ba:37:LEU:HA	1.91	0.51
10:Bd:215:TRP:CG	10:Bd:216:VAL:N	2.77	0.51
12:Bf:369:ARG:CZ	12:Bf:371:ASN:HB2	2.41	0.51
13:BA:339:ARG:NH2	17:BF:402:GLU:OE1	2.44	0.51
14:BB:298:ASN:ND2	16:BE:246:GLY:HA2	2.25	0.51
16:BE:55:GLN:N	17:BF:133:PHE:O	2.43	0.51
16:BE:153:LEU:HD13	16:BE:227:PRO:HG3	1.91	0.51
18:BC:277:LEU:O	18:BC:281:ASP:HB3	2.09	0.51
19:BG:157:ALA:HB3	19:BG:159:TYR:HD2	1.76	0.51
19:BG:172:GLN:OE1	19:BG:172:GLN:N	2.44	0.51
1:AU:31:VAL:HG22	1:AU:35:TRP:CD1	2.45	0.51
4:AX:203:PRO:HB3	4:AX:206:LEU:HG	1.92	0.51
16:AE:138:LEU:HD13	16:AE:141:GLN:NE2	2.26	0.51
16:AE:198:VAL:HB	16:AE:231:PHE:O	2.11	0.51
17:AF:212:PHE:O	17:AF:216:GLY:N	2.40	0.51
17:AF:229:PRO:O	17:AF:392:ASN:ND2	2.43	0.51
17:AF:376:SER:O	17:AF:378:ASP:N	2.39	0.51
25:AM:40:ARG:N	25:AM:161:TRP:O	2.44	0.51
1:BU:374:SER:HB2	1:BU:410:VAL:HB	1.93	0.51
1:BU:625:ILE:HG13	1:BU:626:LEU:HG	1.92	0.51
6:BZ:225:GLN:HG2	6:BZ:228:TYR:CE2	2.43	0.51
7:Ba:35:HIS:CE1	8:Bb:17:ARG:HB2	2.45	0.51
9:Bc:241:ASN:ND2	9:Bc:300:LEU:O	2.41	0.51
9:Bc:295:ASN:OD1	9:Bc:298:GLN:NE2	2.44	0.51
12:Bf:381:VAL:HG11	12:Bf:397:LYS:NZ	2.26	0.51
13:BA:416:VAL:HA	13:BA:420:TYR:HD2	1.74	0.51
21:BI:92:LEU:HD21	21:BI:96:ARG:HH21	1.74	0.51
21:BI:99:LEU:O	29:BQ:86:ARG:NH2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BS:72:LEU:HD23	31:BS:83:MET:SD	2.50	0.51
3:AW:420:ASP:HB2	3:AW:425:LEU:HD12	1.91	0.51
10:Ad:147:SER:OG	10:Ad:151:VAL:N	2.31	0.51
12:Af:369:ARG:O	12:Af:373:ALA:HB2	2.10	0.51
13:AA:218:PRO:CD	13:AA:428:ARG:HG3	2.41	0.51
13:AA:315:ILE:HD12	13:AA:316:LYS:O	2.09	0.51
14:AB:249:ARG:HG3	14:AB:283:PHE:HD2	1.74	0.51
16:AE:368:MET:O	16:AE:372:ARG:HB3	2.10	0.51
19:AG:29:PHE:HA	19:AG:32:ILE:HD12	1.92	0.51
26:AN:132:SER:HA	26:AN:135:ILE:HG12	1.93	0.51
28:AP:34:MET:N	30:BR:166:ARG:O	2.43	0.51
1:BU:243:LEU:O	1:BU:913:ILE:HG21	2.10	0.51
3:BW:312:MET:SD	3:BW:361:HIS:ND1	2.73	0.51
3:BW:432:LEU:HD12	9:Bc:239:LYS:HE2	1.92	0.51
4:BX:203:PRO:HB3	4:BX:206:LEU:HG	1.91	0.51
4:BX:330:LEU:HA	4:BX:333:GLN:HB2	1.92	0.51
13:BA:263:MET:O	13:BA:267:LYS:HG2	2.11	0.51
20:BH:70:LYS:O	20:BH:218:PHE:N	2.44	0.51
1:AU:424:ALA:HA	1:AU:427:LEU:HD13	1.92	0.51
1:AU:742:HIS:HB2	1:AU:883:ARG:HH12	1.75	0.51
3:AW:72:LYS:NZ	3:AW:119:PRO:O	2.42	0.51
5:AY:131:THR:HG21	5:AY:136:HIS:HB2	1.92	0.51
5:AY:296:VAL:O	5:AY:300:ARG:HG3	2.10	0.51
12:Af:496:ASP:O	12:Af:500:LEU:N	2.44	0.51
12:Af:820:GLY:N	12:Af:821:LEU:HA	2.25	0.51
13:AA:83:ASP:CG	14:AB:137:SER:OG	2.53	0.51
13:AA:151:ILE:HD12	13:AA:152:PRO:HD2	1.93	0.51
13:AA:344:SER:CA	13:AA:345:LEU:HB2	2.40	0.51
15:AD:133:HIS:CE1	18:AC:67:GLN:OE1	2.63	0.51
27:AO:202:TYR:CE1	31:BS:174:LEU:HD23	2.45	0.51
1:BU:742:HIS:HB2	1:BU:883:ARG:HH12	1.75	0.51
2:BV:179:LYS:O	2:BV:183:GLU:HG3	2.11	0.51
9:Bc:282:ARG:HD2	9:Bc:284:LEU:HB3	1.93	0.51
10:Bd:145:GLU:N	10:Bd:146:GLY:HA2	2.26	0.51
12:Bf:324:VAL:HA	12:Bf:327:ASN:HB3	1.93	0.51
12:Bf:444:ALA:HB1	12:Bf:446:LEU:HB3	1.92	0.51
12:Bf:621:ASP:C	12:Bf:623:LYS:H	2.17	0.51
13:BA:218:PRO:O	13:BA:221:GLY:N	2.30	0.51
16:BE:198:VAL:HB	16:BE:231:PHE:O	2.11	0.51
16:BE:250:ASP:O	16:BE:254:GLN:HG2	2.10	0.51
17:BF:86:LEU:O	17:BF:88:TYR:N	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BG:185:LYS:HG3	19:BG:187:PHE:H	1.75	0.51
32:BT:192:VAL:HG12	32:BT:197:VAL:HA	1.93	0.51
1:AU:16:GLU:OE1	1:AU:18:GLN:NE2	2.44	0.51
1:AU:692:ALA:HB2	1:AU:733:ALA:HB1	1.93	0.51
1:AU:808:PRO:HD3	1:AU:836:THR:HB	1.93	0.51
1:AU:886:PRO:HA	1:AU:889:LEU:HD12	1.93	0.51
2:AV:440:LYS:NZ	10:Ad:143:LEU:O	2.42	0.51
3:AW:155:GLN:HG2	3:AW:157:GLY:H	1.76	0.51
5:AY:102:ASP:HA	5:AY:105:MET:HG2	1.92	0.51
9:Ac:295:ASN:HA	9:Ac:298:GLN:HG2	1.93	0.51
12:Af:466:LEU:HB3	12:Af:481:SER:OG	2.09	0.51
16:AE:194:ASN:HB2	16:AE:227:PRO:O	2.10	0.51
20:AH:111:VAL:HG21	20:AH:147:PHE:CD2	2.45	0.51
1:BU:176:MET:HA	1:BU:179:TYR:CD1	2.46	0.51
1:BU:436:ALA:HB1	1:BU:472:ILE:HG12	1.93	0.51
2:BV:153:LYS:O	2:BV:157:THR:CG2	2.57	0.51
5:BY:46:ARG:C	5:BY:48:ASN:H	2.19	0.51
10:Bd:213:ARG:HB2	10:Bd:215:TRP:CD1	2.46	0.51
12:Bf:369:ARG:O	12:Bf:373:ALA:HB2	2.10	0.51
12:Bf:473:ASN:HD21	12:Bf:514:VAL:HG13	1.75	0.51
12:Bf:763:ARG:HD2	12:Bf:808:ASN:HB3	1.92	0.51
13:BA:186:LYS:HB3	13:BA:339:ARG:HD2	1.93	0.51
13:BA:344:SER:CA	13:BA:345:LEU:HB2	2.40	0.51
14:BB:294:ARG:NH1	14:BB:295:TYR:O	2.44	0.51
14:BB:324:ASP:HB2	14:BB:326:LYS:HD3	1.92	0.51
28:BP:191:GLU:HG3	28:BP:193:ASP:H	1.76	0.51
5:AY:233:ARG:NH2	5:AY:264:TYR:O	2.40	0.51
6:AZ:45:LYS:HG3	6:AZ:46:LYS:H	1.76	0.51
6:AZ:68:TRP:HH2	6:AZ:111:LEU:HB2	1.75	0.51
7:Aa:215:GLU:HG3	7:Aa:340:VAL:HG22	1.93	0.51
9:Ac:295:ASN:OD1	9:Ac:298:GLN:NE2	2.44	0.51
14:AB:133:VAL:HG11	14:AB:159:VAL:H	1.76	0.51
17:AF:304:ARG:O	17:AF:308:ARG:CB	2.59	0.51
21:AI:35:LEU:HG	21:AI:46:ALA:HB3	1.93	0.51
26:AN:59:VAL:O	26:AN:63:LEU:CB	2.59	0.51
27:AO:6:VAL:HG23	27:AO:124:TYR:HB3	1.92	0.51
30:AR:141:ARG:CZ	29:BQ:162:LYS:CB	2.88	0.51
31:AS:148:LEU:HD22	28:BP:152:SER:HB3	1.92	0.51
31:AS:180:ILE:CB	27:BO:195:LYS:CE	2.77	0.51
5:BY:233:ARG:NH2	5:BY:264:TYR:O	2.41	0.51
7:Ba:215:GLU:HG3	7:Ba:340:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:191:VAL:O	13:BA:195:LEU:HB3	2.11	0.51
14:BB:133:VAL:HG11	14:BB:159:VAL:H	1.76	0.51
17:BF:357:PRO:O	17:BF:362:ARG:NH1	2.40	0.51
23:BK:101:PHE:HZ	30:BR:58:LEU:HA	1.76	0.51
2:AV:89:LYS:HD2	2:AV:93:PHE:CE2	2.46	0.51
2:AV:179:LYS:O	2:AV:183:GLU:HG3	2.11	0.51
16:AE:203:ILE:HG23	16:AE:211:SER:HB3	1.93	0.51
19:AG:56:VAL:HG13	19:AG:61:LEU:HD22	1.93	0.51
26:AN:32:ASP:OD1	26:AN:175:ARG:NE	2.44	0.51
28:AP:172:LEU:HB2	31:BS:157:ASN:HB3	1.92	0.51
29:AQ:139:THR:HG22	29:AQ:163:CYS:SG	2.50	0.51
30:AR:177:TYR:HD1	30:AR:186:ARG:HA	1.76	0.51
1:BU:541:HIS:HB2	1:BU:544:ILE:HG22	1.93	0.51
2:BV:89:LYS:HD2	2:BV:93:PHE:CE2	2.46	0.51
12:Bf:741:LEU:O	12:Bf:745:LEU:HG	2.11	0.51
12:Bf:832:THR:O	12:Bf:836:GLU:HG2	2.11	0.51
14:BB:103:ARG:O	14:BB:103:ARG:HD2	2.10	0.51
15:BD:179:GLU:HG2	15:BD:183:LEU:HD22	1.93	0.51
15:BD:238:LYS:NZ	16:BE:74:THR:O	2.31	0.51
16:BE:368:MET:O	16:BE:372:ARG:HB3	2.10	0.51
25:BM:35:THR:HA	25:BM:166:GLY:HA3	1.93	0.51
26:BN:35:THR:OG1	26:BN:45:ARG:NH2	2.44	0.51
27:BO:42:TYR:HD2	27:BO:176:CYS:SG	2.34	0.51
1:AU:842:LYS:HA	1:AU:843:GLU:CB	2.41	0.50
3:AW:75:TYR:HD1	3:AW:78:LYS:HE2	1.76	0.50
3:AW:432:LEU:HD12	9:Ac:239:LYS:HE2	1.92	0.50
6:AZ:9:VAL:HG12	6:AZ:48:LEU:HB3	1.92	0.50
9:Ac:261:GLU:O	9:Ac:264:LYS:HG2	2.11	0.50
13:AA:170:PRO:HB2	13:AA:230:ALA:HA	1.94	0.50
13:AA:186:LYS:HB3	13:AA:339:ARG:HD2	1.93	0.50
13:AA:344:SER:HA	13:AA:345:LEU:HB2	1.92	0.50
17:AF:406:ILE:HD13	17:AF:422:GLU:OE1	2.11	0.50
25:AM:229:LYS:HZ1	25:AM:235:ALA:H	1.59	0.50
28:AP:191:GLU:HG3	28:AP:193:ASP:H	1.76	0.50
1:BU:424:ALA:HA	1:BU:427:LEU:HD13	1.92	0.50
1:BU:692:ALA:HB1	1:BU:736:ILE:HB	1.93	0.50
7:Ba:78:GLU:O	7:Ba:82:HIS:ND1	2.36	0.50
7:Ba:97:LEU:HD11	7:Ba:117:ALA:HB1	1.93	0.50
10:Bd:52:ARG:HH22	10:Bd:92:SER:HB2	1.76	0.50
11:Be:41:ASP:OD1	11:Be:42:ASN:N	2.34	0.50
12:Bf:496:ASP:O	12:Bf:500:LEU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:763:ARG:HG2	12:Bf:804:LEU:HB2	1.92	0.50
17:BF:261:ILE:HG22	17:BF:305:GLU:OE2	2.11	0.50
17:BF:303:ASP:O	17:BF:306:VAL:N	2.44	0.50
24:BL:47:VAL:HG13	24:BL:212:ILE:HG13	1.93	0.50
24:BL:138:ASP:OD2	32:BT:81:HIS:NE2	2.44	0.50
26:BN:32:ASP:OD1	26:BN:175:ARG:NE	2.44	0.50
12:Af:369:ARG:CZ	12:Af:371:ASN:HB2	2.41	0.50
12:Af:567:LEU:HD23	12:Af:602:GLY:HA3	1.93	0.50
15:AD:277:ALA:C	15:AD:280:GLY:H	2.20	0.50
15:AD:344:ILE:HD11	15:AD:376:ASN:HB2	1.93	0.50
18:AC:158:ILE:HG13	18:AC:162:LYS:NZ	2.26	0.50
25:AM:40:ARG:HB2	25:AM:45:VAL:HG22	1.93	0.50
26:AN:35:THR:OG1	26:AN:45:ARG:NH2	2.44	0.50
26:AN:162:LEU:HD21	26:BN:141:ALA:HB2	1.92	0.50
15:BD:82:ILE:N	15:BD:82:ILE:CD1	2.73	0.50
15:BD:83:GLN:CD	15:BD:133:HIS:CD2	2.80	0.50
16:BE:309:ARG:HG3	16:BE:343:LEU:HD22	1.92	0.50
16:BE:346:VAL:HG13	16:BE:371:VAL:HG22	1.93	0.50
17:BF:137:ILE:CG2	17:BF:160:ILE:H	2.24	0.50
27:BO:64:GLU:O	27:BO:68:LEU:CB	2.59	0.50
30:BR:177:TYR:HD1	30:BR:186:ARG:HA	1.76	0.50
32:BT:60:PHE:O	32:BT:64:LYS:HB2	2.11	0.50
1:AU:176:MET:HA	1:AU:179:TYR:CD1	2.46	0.50
3:AW:190:MET:HE1	3:AW:209:ILE:HG13	1.93	0.50
6:AZ:252:LYS:HE2	9:Ac:301:ALA:HB1	1.93	0.50
10:Ad:213:ARG:HB2	10:Ad:215:TRP:CD1	2.46	0.50
13:AA:183:GLN:H	13:AA:183:GLN:CD	2.20	0.50
16:AE:120:TYR:OH	17:AF:147:PRO:O	2.30	0.50
16:AE:204:VAL:HG11	17:AF:262:GLY:HA3	1.94	0.50
16:AE:360:ASP:OD1	16:AE:360:ASP:N	2.44	0.50
17:AF:300:LYS:NZ	17:AF:301:ALA:O	2.45	0.50
18:AC:69:GLN:OE1	18:AC:118:ASN:CA	2.59	0.50
19:AG:157:ALA:HB3	19:AG:159:TYR:HD2	1.76	0.50
32:AT:192:VAL:HG12	32:AT:197:VAL:HA	1.93	0.50
1:BU:31:VAL:HG22	1:BU:35:TRP:CD1	2.45	0.50
8:Bb:122:LYS:O	8:Bb:125:VAL:HG12	2.12	0.50
12:Bf:389:LYS:O	12:Bf:393:ASP:CB	2.50	0.50
12:Bf:397:LYS:HG2	12:Bf:399:LEU:HG	1.93	0.50
12:Bf:450:ILE:HD12	12:Bf:453:SER:HB2	1.93	0.50
12:Bf:509:LYS:HZ2	12:Bf:516:GLY:HA2	1.76	0.50
12:Bf:567:LEU:HD23	12:Bf:602:GLY:HA3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:183:GLN:H	13:BA:183:GLN:CD	2.19	0.50
16:BE:83:CYS:SG	16:BE:106:THR:OG1	2.65	0.50
16:BE:138:LEU:HD13	16:BE:141:GLN:NE2	2.26	0.50
17:BF:170:SER:OG	17:BF:171:ARG:N	2.44	0.50
18:BC:303:SER:O	18:BC:307:ARG:N	2.45	0.50
9:Ac:282:ARG:HD2	9:Ac:284:LEU:HB3	1.93	0.50
10:Ad:52:ARG:HH22	10:Ad:92:SER:HB2	1.76	0.50
12:Af:410:ALA:O	12:Af:493:ASN:ND2	2.44	0.50
12:Af:821:LEU:N	12:Af:822:VAL:HA	2.25	0.50
18:AC:39:SER:O	18:AC:43:ARG:HG3	2.11	0.50
21:AI:229:LYS:N	21:AI:232:GLU:OE2	2.43	0.50
24:AL:73:SER:HB3	24:AL:133:LEU:HB2	1.93	0.50
27:AO:42:TYR:HD2	27:AO:176:CYS:SG	2.34	0.50
30:AR:191:ASN:OD1	30:AR:192:VAL:N	2.44	0.50
1:BU:16:GLU:OE1	1:BU:18:GLN:NE2	2.44	0.50
1:BU:232:ILE:O	1:BU:236:LEU:HG	2.11	0.50
3:BW:190:MET:HE1	3:BW:209:ILE:HG13	1.93	0.50
5:BY:232:GLU:CD	5:BY:234:PRO:HD2	2.36	0.50
12:Bf:294:MET:HA	12:Bf:297:MET:HB2	1.94	0.50
12:Bf:440:ILE:HG13	12:Bf:441:LYS:H	1.76	0.50
17:BF:183:GLU:HG2	17:BF:239:ALA:HB2	1.93	0.50
18:BC:223:PHE:HD2	18:BC:224:ILE:HG13	1.77	0.50
23:BK:154:PHE:HB3	23:BK:162:PHE:HE1	1.75	0.50
32:BT:1:THR:N	32:BT:105:PRO:O	2.37	0.50
2:AV:81:GLN:HB3	2:AV:82:LEU:C	2.37	0.50
4:AX:330:LEU:HA	4:AX:333:GLN:HB2	1.92	0.50
5:AY:191:ILE:HG13	5:AY:192:ARG:H	1.77	0.50
9:Ac:243:SER:CB	9:Ac:244:VAL:HB	2.37	0.50
12:Af:440:ILE:HG13	12:Af:441:LYS:H	1.76	0.50
12:Af:832:THR:O	12:Af:836:GLU:HG2	2.11	0.50
13:AA:274:PHE:HB2	13:AA:319:MET:SD	2.52	0.50
14:AB:294:ARG:NH1	14:AB:295:TYR:O	2.44	0.50
16:AE:346:VAL:HG13	16:AE:371:VAL:HG22	1.93	0.50
19:AG:172:GLN:N	19:AG:172:GLN:OE1	2.44	0.50
20:AH:70:LYS:O	20:AH:218:PHE:N	2.44	0.50
27:AO:210:ALA:HA	31:BS:159:GLN:HE22	1.73	0.50
28:AP:32:ALA:HB1	30:BR:169:TYR:CD2	2.46	0.50
1:BU:886:PRO:HA	1:BU:889:LEU:HD12	1.93	0.50
4:BX:205:LYS:HG3	4:BX:208:ALA:HB3	1.93	0.50
6:BZ:214:LYS:HB3	6:BZ:222:ILE:HG12	1.94	0.50
12:Bf:282:PHE:HA	12:Bf:285:CYS:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:344:VAL:HG23	12:Bf:346:ASP:HB2	1.93	0.50
12:Bf:353:LEU:HD23	12:Bf:358:PHE:CD2	2.47	0.50
13:BA:344:SER:HA	13:BA:345:LEU:HB2	1.92	0.50
13:BA:358:HIS:CD2	13:BA:386:ARG:HG3	2.46	0.50
14:BB:136:LEU:O	14:BB:136:LEU:HD23	2.12	0.50
14:BB:305:ILE:HA	14:BB:308:THR:HG22	1.94	0.50
15:BD:344:ILE:HD11	15:BD:376:ASN:HB2	1.93	0.50
17:BF:100:ASP:OD1	17:BF:100:ASP:N	2.43	0.50
17:BF:406:ILE:HD13	17:BF:422:GLU:OE1	2.11	0.50
18:BC:69:GLN:OE1	18:BC:118:ASN:CA	2.59	0.50
18:BC:158:ILE:HG13	18:BC:162:LYS:NZ	2.26	0.50
21:BI:35:LEU:HG	21:BI:46:ALA:HB3	1.93	0.50
26:BN:132:SER:HA	26:BN:135:ILE:HG12	1.93	0.50
1:AU:374:SER:HB2	1:AU:410:VAL:HB	1.93	0.50
1:AU:403:THR:HG23	1:AU:777:HIS:HE2	1.77	0.50
6:AZ:267:ARG:HH22	9:Ac:291:LEU:HD13	1.77	0.50
8:Ab:95:LEU:HA	8:Ab:98:LYS:HZ3	1.76	0.50
12:Af:444:ALA:HB1	12:Af:446:LEU:HB3	1.92	0.50
13:AA:214:LEU:O	13:AA:320:ALA:HA	2.12	0.50
16:AE:126:ASP:OD1	16:AE:185:ARG:NE	2.44	0.50
23:AK:101:PHE:HZ	30:AR:58:LEU:HA	1.76	0.50
27:AO:208:THR:CB	31:BS:159:GLN:O	2.60	0.50
31:AS:159:GLN:C	27:BO:208:THR:HG1	2.19	0.50
6:BZ:45:LYS:HG3	6:BZ:46:LYS:H	1.76	0.50
6:BZ:252:LYS:HE2	9:Bc:301:ALA:HB1	1.93	0.50
9:Bc:261:GLU:O	9:Bc:264:LYS:HG2	2.11	0.50
12:Bf:747:GLN:HE22	14:BB:117:ASP:CG	2.19	0.50
12:Bf:820:GLY:N	12:Bf:821:LEU:HA	2.26	0.50
14:BB:254:GLU:HB2	18:BC:268:GLU:OE1	2.11	0.50
14:BB:313:LEU:O	14:BB:317:ASP:N	2.45	0.50
16:BE:203:ILE:HG23	16:BE:211:SER:HB3	1.93	0.50
23:BK:196:LYS:HA	23:BK:199:LEU:HG	1.94	0.50
25:BM:215:TRP:HB3	25:BM:227:VAL:HG13	1.93	0.50
26:BN:59:VAL:O	26:BN:63:LEU:CB	2.59	0.50
30:BR:191:ASN:OD1	30:BR:192:VAL:N	2.44	0.50
2:AV:47:SER:HA	2:AV:50:GLU:HB2	1.94	0.50
2:AV:108:LEU:HA	2:AV:111:TYR:HD2	1.77	0.50
4:AX:406:ASN:HB2	5:AY:376:LEU:HD11	1.94	0.50
5:AY:232:GLU:CD	5:AY:234:PRO:HD2	2.36	0.50
7:Aa:97:LEU:HD11	7:Aa:117:ALA:HB1	1.93	0.50
12:Af:255:VAL:HG12	12:Af:294:MET:HE1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:381:VAL:HG11	12:Af:397:LYS:NZ	2.26	0.50
12:Af:763:ARG:HG2	12:Af:804:LEU:HB2	1.92	0.50
13:AA:140:VAL:HG12	13:AA:152:PRO:HA	1.92	0.50
13:AA:191:VAL:O	13:AA:195:LEU:HB3	2.11	0.50
13:AA:358:HIS:CD2	13:AA:386:ARG:HG3	2.46	0.50
24:AL:40:SER:HA	24:AL:180:MET:HA	1.93	0.50
25:AM:106:ILE:HD12	25:AM:107:PRO:HD2	1.94	0.50
25:AM:215:TRP:HB3	25:AM:227:VAL:HG13	1.93	0.50
2:BV:108:LEU:HA	2:BV:111:TYR:HD2	1.77	0.50
3:BW:148:THR:O	3:BW:151:THR:OG1	2.29	0.50
3:BW:377:ARG:HH21	7:Ba:308:GLU:CD	2.18	0.50
4:BX:364:LYS:O	4:BX:368:MET:HG2	2.12	0.50
5:BY:208:PHE:HB2	18:BC:340:ARG:HD2	1.93	0.50
7:Ba:156:TYR:CG	7:Ba:179:PHE:HB2	2.46	0.50
12:Bf:642:ALA:O	12:Bf:645:ASP:N	2.45	0.50
13:BA:218:PRO:CD	13:BA:428:ARG:HG3	2.41	0.50
25:BM:188:ASP:O	25:BM:192:GLU:HG2	2.12	0.50
1:AU:436:ALA:HB1	1:AU:472:ILE:HG12	1.93	0.50
2:AV:349:ARG:HD2	2:AV:354:LYS:HD3	1.92	0.50
3:AW:67:LEU:H	3:AW:68:VAL:HA	1.77	0.50
12:Af:747:GLN:HE22	14:AB:117:ASP:CG	2.19	0.50
13:AA:244:GLU:OE2	14:AB:268:ARG:NE	2.45	0.50
15:AD:43:ARG:HA	15:AD:46:LYS:HB2	1.94	0.50
16:AE:83:CYS:SG	16:AE:106:THR:OG1	2.65	0.50
17:AF:86:LEU:C	17:AF:88:TYR:N	2.68	0.50
17:AF:100:ASP:OD1	17:AF:100:ASP:N	2.43	0.50
17:AF:183:GLU:HG2	17:AF:239:ALA:HB2	1.93	0.50
17:AF:303:ASP:O	17:AF:306:VAL:N	2.44	0.50
18:AC:283:PHE:CD1	18:AC:284:GLU:HG2	2.47	0.50
19:AG:39:SER:H	19:AG:172:GLN:HE21	1.60	0.50
21:AI:12:PHE:HB3	22:AJ:21:TYR:OH	2.12	0.50
21:AI:62:SER:OG	21:AI:65:ILE:HB	2.11	0.50
2:BV:47:SER:HA	2:BV:50:GLU:HB2	1.94	0.50
2:BV:212:TYR:HH	2:BV:287:ARG:HH22	1.56	0.50
3:BW:72:LYS:NZ	3:BW:119:PRO:O	2.42	0.50
12:Bf:268:LEU:HB2	12:Bf:300:ARG:HH12	1.76	0.50
13:BA:214:LEU:O	13:BA:320:ALA:HA	2.12	0.50
14:BB:240:ALA:O	14:BB:243:THR:OG1	2.19	0.50
15:BD:270:ILE:HA	16:BE:251:ARG:HH21	1.75	0.50
16:BE:204:VAL:HG11	17:BF:262:GLY:HA3	1.94	0.50
17:BF:221:LYS:HD2	17:BF:327:LYS:HE3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BC:283:PHE:CD1	18:BC:284:GLU:HG2	2.47	0.50
19:BG:56:VAL:HG13	19:BG:61:LEU:HD22	1.93	0.50
21:BI:105:ILE:HD12	21:BI:106:PRO:HD2	1.92	0.50
1:AU:113:VAL:HG22	1:AU:158:ARG:HG3	1.94	0.50
1:AU:232:ILE:O	1:AU:236:LEU:HG	2.12	0.50
3:AW:183:VAL:O	3:AW:186:ILE:HG22	2.12	0.50
3:AW:402:ILE:HG23	3:AW:416:GLN:HE22	1.77	0.50
6:AZ:52:ASN:OD1	6:AZ:53:SER:N	2.40	0.50
10:Ad:175:ARG:HH21	10:Ad:205:LYS:NZ	2.10	0.50
12:Af:282:PHE:HA	12:Af:285:CYS:HB2	1.94	0.50
12:Af:741:LEU:O	12:Af:745:LEU:HG	2.11	0.50
13:AA:428:ARG:O	13:AA:431:THR:OG1	2.19	0.50
14:AB:103:ARG:CG	14:AB:107:MET:CE	2.89	0.50
14:AB:305:ILE:HA	14:AB:308:THR:HG22	1.94	0.50
18:AC:137:LEU:HA	18:AC:140:VAL:HG12	1.94	0.50
20:AH:9:SER:OG	20:AH:123:GLN:O	2.30	0.50
25:AM:232:ARG:HB3	25:AM:234:GLU:HG2	1.94	0.50
26:AN:21:THR:HB	26:AN:25:TYR:O	2.12	0.50
27:AO:64:GLU:O	27:AO:68:LEU:CB	2.59	0.50
32:AT:99:ARG:HD2	32:AT:104:ASN:O	2.12	0.50
1:BU:596:ASN:O	1:BU:599:ILE:HG22	2.11	0.50
6:BZ:182:THR:N	6:BZ:183:THR:HA	2.27	0.50
9:Bc:154:LYS:HG2	9:Bc:156:VAL:H	1.76	0.50
11:Be:62:LYS:NZ	11:Be:66:LYS:HD3	2.27	0.50
12:Bf:410:ALA:O	12:Bf:493:ASN:ND2	2.45	0.50
13:BA:140:VAL:HG12	13:BA:152:PRO:HA	1.92	0.50
13:BA:151:ILE:HD12	13:BA:152:PRO:HD2	1.93	0.50
13:BA:413:VAL:O	13:BA:417:ILE:HG12	2.12	0.50
15:BD:164:TYR:HB3	15:BD:218:ALA:HB1	1.93	0.50
15:BD:277:ALA:C	15:BD:280:GLY:H	2.20	0.50
22:BJ:144:LEU:HD11	22:BJ:156:TRP:HB2	1.94	0.50
31:BS:28:ARG:O	31:BS:42:LYS:NZ	2.45	0.50
1:AU:692:ALA:HB1	1:AU:736:ILE:HB	1.93	0.49
1:AU:725:MET:HE1	9:Ac:182:GLY:HA3	1.94	0.49
7:Aa:156:TYR:CG	7:Aa:179:PHE:HB2	2.46	0.49
12:Af:642:ALA:O	12:Af:659:LEU:HD21	2.12	0.49
17:AF:137:ILE:CG2	17:AF:160:ILE:H	2.24	0.49
21:AI:105:ILE:HD12	21:AI:106:PRO:HD2	1.92	0.49
22:AJ:11:SER:OG	22:AJ:13:ASP:OD1	2.23	0.49
22:AJ:36:ARG:HB3	22:AJ:144:LEU:HD23	1.93	0.49
24:AL:47:VAL:HG13	24:AL:212:ILE:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:148:LEU:CD2	28:BP:152:SER:HB3	2.42	0.49
3:BW:142:ARG:HH21	3:BW:178:GLU:HB2	1.77	0.49
6:BZ:197:GLY:HA3	7:Ba:364:GLU:CD	2.37	0.49
13:BA:324:PRO:CD	13:BA:432:TYR:HB2	2.42	0.49
15:BD:320:ALA:O	15:BD:323:ARG:NH2	2.45	0.49
18:BC:167:LEU:HD23	18:BC:171:HIS:HB2	1.94	0.49
20:BH:150:ASP:OD1	20:BH:154:ALA:N	2.45	0.49
21:BI:12:PHE:HB3	22:BJ:21:TYR:OH	2.12	0.49
21:BI:235:GLN:O	21:BI:239:LYS:CB	2.60	0.49
25:BM:40:ARG:HB2	25:BM:45:VAL:HG22	1.93	0.49
32:BT:190:ALA:HB2	32:BT:199:ILE:HG23	1.93	0.49
1:AU:167:ILE:HD12	1:AU:204:ILE:HG21	1.94	0.49
3:AW:61:VAL:O	3:AW:64:SER:OG	2.27	0.49
3:AW:257:GLN:HB3	3:AW:259:GLU:N	2.26	0.49
5:AY:46:ARG:C	5:AY:48:ASN:H	2.19	0.49
5:AY:95:LEU:HB3	18:AC:171:HIS:CE1	2.47	0.49
8:Ab:20:ASP:OD1	8:Ab:25:ARG:NE	2.39	0.49
12:Af:268:LEU:HB2	12:Af:300:ARG:HH12	1.76	0.49
13:AA:413:VAL:O	13:AA:417:ILE:HG12	2.12	0.49
14:AB:100:ASP:HA	14:AB:103:ARG:NH2	2.27	0.49
14:AB:130:GLU:OE1	14:AB:130:GLU:N	2.45	0.49
14:AB:191:ASP:OD1	14:AB:191:ASP:N	2.45	0.49
14:AB:368:HIS:CE1	14:AB:396:LYS:HB2	2.46	0.49
15:AD:164:TYR:HB3	15:AD:218:ALA:HB1	1.93	0.49
16:AE:371:VAL:O	16:AE:375:ALA:HB2	2.12	0.49
17:AF:221:LYS:HD2	17:AF:327:LYS:HE3	1.94	0.49
18:AC:13:GLU:N	18:AC:14:GLY:HA3	2.27	0.49
20:AH:150:ASP:OD1	20:AH:154:ALA:N	2.45	0.49
26:AN:141:ALA:HB2	26:BN:162:LEU:HD21	1.94	0.49
29:AQ:141:SER:HB2	30:BR:138:VAL:N	2.27	0.49
1:BU:249:CYS:HB3	1:BU:328:ILE:HG21	1.93	0.49
3:BW:446:ILE:HG21	6:BZ:157:HIS:HB2	1.95	0.49
6:BZ:236:LEU:HD21	7:Ba:335:TRP:HD1	1.77	0.49
9:Bc:46:ARG:CG	16:BE:85:ARG:NH2	2.53	0.49
10:Bd:140:GLU:HG3	10:Bd:144:MET:HE3	1.92	0.49
12:Bf:688:ARG:HA	12:Bf:721:VAL:HG12	1.94	0.49
12:Bf:709:THR:HA	12:Bf:712:LYS:HZ1	1.76	0.49
17:BF:314:LEU:O	17:BF:318:ASP:CB	2.60	0.49
21:BI:62:SER:OG	21:BI:65:ILE:HB	2.12	0.49
22:BJ:12:PRO:HG3	23:BK:26:TYR:CZ	2.47	0.49
24:BL:184:LEU:HD23	24:BL:214:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:478:SER:OG	1:AU:511:ALA:HB1	2.12	0.49
1:AU:541:HIS:HB2	1:AU:544:ILE:HG22	1.93	0.49
3:AW:142:ARG:HH21	3:AW:178:GLU:HB2	1.77	0.49
4:AX:205:LYS:HG3	4:AX:208:ALA:HB3	1.94	0.49
6:AZ:182:THR:N	6:AZ:183:THR:HA	2.27	0.49
6:AZ:197:GLY:HA3	7:Aa:364:GLU:CD	2.37	0.49
11:Ae:62:LYS:NZ	11:Ae:66:LYS:HD3	2.27	0.49
12:Af:353:LEU:HD23	12:Af:358:PHE:CD2	2.47	0.49
12:Af:734:SER:HB3	12:Af:768:LEU:HG	1.94	0.49
12:Af:776:LEU:N	12:Af:777:THR:O	2.46	0.49
13:AA:263:MET:O	13:AA:267:LYS:HG2	2.11	0.49
14:AB:136:LEU:HD23	14:AB:136:LEU:O	2.12	0.49
18:AC:36:ASN:O	18:AC:40:GLN:HG2	2.13	0.49
18:AC:138:MET:O	18:AC:142:LYS:HG2	2.12	0.49
30:AR:97:MET:HE2	30:AR:99:THR:HG21	1.94	0.49
30:AR:169:TYR:CD2	28:BP:32:ALA:HB1	2.47	0.49
1:BU:525:ASN:OD1	1:BU:526:ALA:N	2.46	0.49
1:BU:692:ALA:HB2	1:BU:733:ALA:HB1	1.93	0.49
2:BV:55:THR:HB	2:BV:198:GLN:CD	2.37	0.49
2:BV:322:VAL:HG13	2:BV:323:GLY:N	2.27	0.49
3:BW:402:ILE:HG23	3:BW:416:GLN:HE22	1.77	0.49
5:BY:191:ILE:HG13	5:BY:192:ARG:H	1.77	0.49
12:Bf:255:VAL:HG12	12:Bf:294:MET:HE1	1.94	0.49
13:BA:170:PRO:HB2	13:BA:230:ALA:HA	1.94	0.49
13:BA:274:PHE:HB2	13:BA:319:MET:SD	2.52	0.49
14:BB:211:TYR:CE1	14:BB:218:PRO:HD2	2.36	0.49
14:BB:272:ARG:O	14:BB:276:GLU:HG2	2.12	0.49
14:BB:368:HIS:CE1	14:BB:396:LYS:HB2	2.47	0.49
16:BE:345:ASN:ND2	17:BF:345:SER:N	2.57	0.49
18:BC:13:GLU:N	18:BC:14:GLY:HA3	2.27	0.49
19:BG:144:ASP:H	19:BG:150:GLN:HE22	1.60	0.49
20:BH:9:SER:OG	20:BH:123:GLN:O	2.30	0.49
20:BH:42:ASN:OD1	20:BH:42:ASN:N	2.46	0.49
24:BL:40:SER:HA	24:BL:180:MET:HA	1.93	0.49
24:BL:73:SER:HB3	24:BL:133:LEU:HB2	1.93	0.49
26:BN:21:THR:HB	26:BN:25:TYR:O	2.12	0.49
31:BS:73:LYS:O	31:BS:77:HIS:ND1	2.39	0.49
32:BT:99:ARG:HD2	32:BT:104:ASN:O	2.12	0.49
2:AV:26:PRO:O	2:AV:29:PRO:HD2	2.12	0.49
4:AX:406:ASN:HA	4:AX:409:LYS:HD3	1.94	0.49
5:AY:208:PHE:HB2	18:AC:340:ARG:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ac:174:PRO:CB	9:Ac:175:ARG:HA	2.42	0.49
12:Af:609:VAL:HB	12:Af:631:LYS:NZ	2.27	0.49
12:Af:803:PHE:HE1	12:Af:807:ARG:HH21	1.60	0.49
13:AA:328:ASP:O	13:AA:332:MET:HG2	2.12	0.49
14:AB:313:LEU:O	14:AB:317:ASP:N	2.45	0.49
14:AB:429:LYS:HE2	18:AC:314:LYS:NZ	2.27	0.49
15:AD:65:GLN:O	18:AC:49:ARG:NH2	2.45	0.49
15:AD:341:LYS:O	15:AD:344:ILE:HG22	2.12	0.49
17:AF:150:LEU:HD23	17:AF:150:LEU:O	2.12	0.49
17:AF:234:THR:N	34:AF:501:ATP:O2B	2.36	0.49
17:AF:249:LEU:HB2	17:AF:283:ILE:HG13	1.95	0.49
23:AK:84:ASP:OD1	23:AK:135:ARG:NH2	2.45	0.49
25:AM:188:ASP:O	25:AM:192:GLU:HG2	2.12	0.49
29:AQ:157:VAL:O	29:AQ:161:ARG:HG2	2.13	0.49
30:AR:26:ILE:CB	28:BP:177:ARG:CG	2.82	0.49
32:AT:144:TYR:HB3	27:BO:132:LEU:HD13	1.94	0.49
12:Bf:530:CYS:SG	12:Bf:531:ASN:N	2.86	0.49
13:BA:139:ARG:H	13:BA:156:LYS:HE3	1.78	0.49
14:BB:295:TYR:OH	14:BB:302:GLU:N	2.46	0.49
1:AU:525:ASN:OD1	1:AU:526:ALA:N	2.46	0.49
4:AX:364:LYS:O	4:AX:368:MET:HG2	2.12	0.49
5:AY:349:LYS:C	5:AY:351:ASN:H	2.20	0.49
9:Ac:154:LYS:HG2	9:Ac:156:VAL:H	1.77	0.49
12:Af:324:VAL:HA	12:Af:327:ASN:HB3	1.93	0.49
15:AD:81:ARG:C	15:AD:82:ILE:HD12	2.37	0.49
15:AD:282:ASP:O	15:AD:285:VAL:HG22	2.13	0.49
15:AD:320:ALA:O	15:AD:323:ARG:NH2	2.45	0.49
17:AF:357:PRO:O	17:AF:362:ARG:NH1	2.40	0.49
18:AC:214:VAL:HG22	18:AC:215:SER:H	1.78	0.49
18:AC:260:GLU:O	18:AC:263:SER:OG	2.26	0.49
18:AC:303:SER:O	18:AC:307:ARG:N	2.45	0.49
2:BV:26:PRO:O	2:BV:29:PRO:HD2	2.12	0.49
3:BW:67:LEU:H	3:BW:68:VAL:HA	1.77	0.49
3:BW:257:GLN:HB3	3:BW:259:GLU:N	2.26	0.49
6:BZ:267:ARG:HH22	9:Bc:291:LEU:HD13	1.77	0.49
8:Bb:20:ASP:OD2	8:Bb:25:ARG:NH2	2.30	0.49
12:Bf:595:VAL:O	12:Bf:599:ALA:HB3	2.12	0.49
16:BE:241:ARG:HB2	17:BF:298:SER:HB2	1.95	0.49
23:BK:226:PHE:HA	23:BK:227:HIS:HB3	1.94	0.49
1:AU:249:CYS:HB3	1:AU:328:ILE:HG21	1.93	0.49
7:Aa:340:VAL:HG12	7:Aa:341:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:120:HIS:ND1	14:AB:132:TYR:HB3	2.28	0.49
15:AD:369:LYS:HZ2	20:AH:201:GLY:H	1.59	0.49
32:AT:60:PHE:O	32:AT:64:LYS:HB2	2.11	0.49
5:BY:20:ALA:HB2	5:BY:150:PHE:HD1	1.77	0.49
5:BY:95:LEU:HB3	18:BC:171:HIS:CE1	2.47	0.49
7:Ba:214:GLY:HA2	7:Ba:217:LEU:HD13	1.94	0.49
10:Bd:139:LEU:O	10:Bd:143:LEU:HD13	2.13	0.49
12:Bf:821:LEU:H	12:Bf:823:ALA:CA	2.24	0.49
13:BA:244:GLU:OE2	14:BB:268:ARG:NE	2.45	0.49
14:BB:130:GLU:N	14:BB:130:GLU:OE1	2.45	0.49
14:BB:429:LYS:HE2	18:BC:314:LYS:NZ	2.27	0.49
30:BR:196:HIS:O	30:BR:200:SER:CB	2.61	0.49
1:AU:176:MET:HA	1:AU:179:TYR:HD1	1.77	0.49
1:AU:566:LEU:O	1:AU:570:LEU:HG	2.13	0.49
3:AW:90:LEU:CD2	15:AD:390:ASN:HB3	2.42	0.49
7:Aa:211:PHE:HA	7:Aa:271:LYS:HE3	1.95	0.49
12:Af:450:ILE:HD12	12:Af:453:SER:HB2	1.93	0.49
12:Af:529:SER:HB3	12:Af:531:ASN:HD22	1.76	0.49
14:AB:217:LYS:C	14:AB:219:PRO:HD3	2.38	0.49
16:AE:291:ARG:HG3	16:AE:292:PRO:O	2.13	0.49
17:AF:314:LEU:O	17:AF:318:ASP:CB	2.60	0.49
21:AI:134:LEU:H	21:AI:150:SER:HG	1.54	0.49
28:AP:152:SER:HB3	31:BS:148:LEU:HD22	1.95	0.49
31:AS:28:ARG:O	31:AS:42:LYS:NZ	2.45	0.49
1:BU:167:ILE:HD12	1:BU:204:ILE:HG21	1.94	0.49
2:BV:90:GLU:HG3	2:BV:158:PRO:HB3	1.94	0.49
4:BX:223:LYS:HE2	5:BY:244:ALA:HB2	1.95	0.49
12:Bf:529:SER:HB3	12:Bf:531:ASN:HD22	1.76	0.49
14:BB:100:ASP:HA	14:BB:103:ARG:NH2	2.26	0.49
14:BB:120:HIS:ND1	14:BB:132:TYR:HB3	2.28	0.49
15:BD:81:ARG:C	15:BD:82:ILE:HD12	2.37	0.49
16:BE:120:TYR:OH	17:BF:147:PRO:O	2.30	0.49
16:BE:145:LEU:HD21	16:BE:299:ILE:HD13	1.95	0.49
18:BC:39:SER:O	18:BC:43:ARG:HG3	2.11	0.49
23:BK:166:ASP:HB2	24:BL:56:LEU:HB2	1.95	0.49
1:AU:141:CYS:HA	18:AC:11:LEU:HD11	1.95	0.49
1:AU:159:ARG:HB3	1:AU:162:VAL:HG12	1.95	0.49
5:AY:333:GLU:HA	5:AY:336:ARG:HH21	1.78	0.49
8:Ab:122:LYS:O	8:Ab:125:VAL:HG12	2.12	0.49
12:Af:397:LYS:HG2	12:Af:399:LEU:HG	1.93	0.49
12:Af:595:VAL:O	12:Af:599:ALA:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:798:THR:O	12:Af:801:VAL:HG22	2.13	0.49
13:AA:139:ARG:HD2	13:AA:156:LYS:HA	1.95	0.49
14:AB:295:TYR:OH	14:AB:302:GLU:N	2.46	0.49
15:AD:133:HIS:ND1	18:AC:67:GLN:OE1	2.46	0.49
15:AD:179:GLU:HG2	15:AD:183:LEU:HD22	1.93	0.49
15:AD:246:MET:O	15:AD:250:VAL:HG23	2.13	0.49
16:AE:241:ARG:HB2	17:AF:298:SER:HB2	1.95	0.49
25:AM:69:VAL:H	25:AM:74:GLY:HA2	1.78	0.49
25:AM:83:ASP:HB2	25:AM:133:CYS:SG	2.53	0.49
29:AQ:140:LEU:HD22	30:BR:166:ARG:HG2	1.95	0.49
30:AR:141:ARG:NH1	29:BQ:162:LYS:HA	2.23	0.49
3:BW:441:LYS:NZ	6:BZ:207:ASP:OD2	2.46	0.49
9:Bc:174:PRO:CB	9:Bc:175:ARG:HA	2.42	0.49
9:Bc:244:VAL:HA	9:Bc:247:GLU:HB2	1.95	0.49
12:Bf:642:ALA:O	12:Bf:659:LEU:HD21	2.12	0.49
17:BF:150:LEU:O	17:BF:150:LEU:HD23	2.12	0.49
17:BF:300:LYS:NZ	17:BF:301:ALA:O	2.45	0.49
18:BC:137:LEU:HA	18:BC:140:VAL:HG12	1.94	0.49
20:BH:3:GLU:HG3	20:BH:5:GLY:H	1.78	0.49
20:BH:67:PRO:O	20:BH:91:ARG:NH2	2.46	0.49
25:BM:232:ARG:HB3	25:BM:234:GLU:HG2	1.94	0.49
2:AV:31:ALA:HB3	2:AV:32:PRO:HD3	1.95	0.49
3:AW:98:LYS:HD3	3:AW:138:VAL:HB	1.95	0.49
5:AY:20:ALA:HB2	5:AY:150:PHE:HD1	1.77	0.49
12:Af:479:LEU:HA	12:Af:517:VAL:HG13	1.94	0.49
13:AA:125:LEU:HD21	13:AA:131:PRO:HA	1.95	0.49
13:AA:351:ARG:NH1	13:AA:378:PRO:HA	2.27	0.49
14:AB:173:VAL:HG12	18:AC:232:ARG:HG2	1.94	0.49
14:AB:254:GLU:HB2	18:AC:268:GLU:OE1	2.11	0.49
15:AD:83:GLN:CD	15:AD:133:HIS:CD2	2.80	0.49
23:AK:11:GLY:O	23:AK:12:VAL:HG22	2.12	0.49
31:AS:180:ILE:CG2	27:BO:195:LYS:HG2	2.37	0.49
3:BW:136:ILE:HG13	15:BD:392:TYR:CD1	2.36	0.49
3:BW:136:ILE:HD11	15:BD:392:TYR:CD1	2.47	0.49
6:BZ:59:ASP:CG	8:Bb:99:HIS:HE2	2.21	0.49
6:BZ:191:ILE:O	6:BZ:195:VAL:HG23	2.13	0.49
9:Bc:188:SER:CA	9:Bc:189:ILE:HG22	2.42	0.49
12:Bf:798:THR:O	12:Bf:801:VAL:HG22	2.13	0.49
13:BA:328:ASP:O	13:BA:332:MET:HG2	2.12	0.49
13:BA:351:ARG:NH1	13:BA:378:PRO:HA	2.28	0.49
15:BD:81:ARG:CG	15:BD:82:ILE:HD12	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BD:133:HIS:ND1	18:BC:67:GLN:OE1	2.46	0.49
15:BD:369:LYS:HZ2	20:BH:201:GLY:H	1.59	0.49
2:AV:90:GLU:HG3	2:AV:158:PRO:HB3	1.94	0.49
6:AZ:136:GLU:OE2	6:AZ:157:HIS:ND1	2.46	0.49
10:Ad:48:LEU:O	10:Ad:52:ARG:HG3	2.13	0.49
12:Af:294:MET:HA	12:Af:297:MET:HB2	1.94	0.49
13:AA:119:ALA:HA	17:AF:127:SER:HB3	1.95	0.49
14:AB:176:VAL:HA	14:AB:177:GLU:HA	1.58	0.49
17:AF:150:LEU:HD22	17:AF:164:LEU:HB3	1.95	0.49
17:AF:357:PRO:HB2	17:AF:362:ARG:HG2	1.95	0.49
17:AF:363:ALA:HB1	17:AF:381:TYR:HB3	1.95	0.49
17:AF:403:ALA:HB1	17:AF:415:LEU:HD11	1.95	0.49
23:AK:226:PHE:HA	23:AK:227:HIS:HB3	1.94	0.49
25:AM:35:THR:HA	25:AM:166:GLY:HA3	1.93	0.49
25:AM:66:LEU:HD13	25:AM:214:SER:HB2	1.95	0.49
27:AO:7:VAL:HG22	27:AO:12:ILE:HG12	1.94	0.49
30:AR:196:HIS:O	30:AR:200:SER:CB	2.61	0.49
1:BU:141:CYS:HA	18:BC:11:LEU:HD11	1.95	0.49
1:BU:159:ARG:HB3	1:BU:162:VAL:HG12	1.95	0.49
1:BU:216:VAL:HG21	1:BU:232:ILE:HD13	1.95	0.49
2:BV:81:GLN:HB3	2:BV:82:LEU:C	2.37	0.49
3:BW:155:GLN:HG2	3:BW:157:GLY:H	1.76	0.49
6:BZ:219:LYS:HG3	6:BZ:220:LEU:HD23	1.95	0.49
9:Bc:33:ILE:HD11	9:Bc:207:TYR:HD1	1.78	0.49
10:Bd:175:ARG:HH21	10:Bd:205:LYS:NZ	2.10	0.49
12:Bf:553:THR:OG1	12:Bf:845:ARG:NH2	2.46	0.49
14:BB:222:VAL:HA	14:BB:346:ARG:HG2	1.95	0.49
15:BD:65:GLN:O	18:BC:49:ARG:NH2	2.45	0.49
15:BD:341:LYS:O	15:BD:344:ILE:HG22	2.12	0.49
15:BD:361:GLU:HA	15:BD:364:VAL:HG12	1.94	0.49
21:BI:171:ALA:O	21:BI:175:LEU:HG	2.13	0.49
25:BM:69:VAL:H	25:BM:74:GLY:HA2	1.78	0.49
30:BR:97:MET:HE2	30:BR:99:THR:HG21	1.94	0.49
4:AX:258:LYS:HD3	4:AX:266:ASP:HB2	1.95	0.48
6:AZ:214:LYS:HB3	6:AZ:222:ILE:HG12	1.94	0.48
6:AZ:219:LYS:HG3	6:AZ:220:LEU:HD23	1.94	0.48
12:Af:688:ARG:HA	12:Af:721:VAL:HG12	1.94	0.48
12:Af:694:LEU:HD22	12:Af:728:ALA:HB1	1.95	0.48
13:AA:139:ARG:H	13:AA:156:LYS:HE3	1.78	0.48
14:AB:222:VAL:HA	14:AB:346:ARG:HG2	1.95	0.48
15:AD:361:GLU:HA	15:AD:364:VAL:HG12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AF:170:SER:OG	17:AF:171:ARG:N	2.44	0.48
17:AF:373:MET:SD	17:AF:373:MET:N	2.86	0.48
21:AI:171:ALA:O	21:AI:175:LEU:HG	2.13	0.48
22:AJ:144:LEU:HD11	22:AJ:156:TRP:HB2	1.94	0.48
32:AT:178:TYR:C	26:BN:29:ARG:HE	2.21	0.48
2:BV:281:ASN:N	2:BV:284:GLU:HB3	2.27	0.48
3:BW:139:GLU:HG2	3:BW:142:ARG:HB2	1.95	0.48
3:BW:183:VAL:O	3:BW:186:ILE:HG22	2.12	0.48
6:BZ:237:LEU:HB2	6:BZ:239:ASP:HB3	1.94	0.48
7:Ba:211:PHE:HA	7:Ba:271:LYS:HE3	1.95	0.48
14:BB:103:ARG:CG	14:BB:107:MET:CE	2.89	0.48
14:BB:288:ASP:HB3	14:BB:292:THR:HG23	1.95	0.48
15:BD:105:SER:OG	15:BD:107:THR:OG1	2.30	0.48
15:BD:200:ARG:HH22	15:BD:300:ASP:CG	2.21	0.48
17:BF:76:ASN:O	17:BF:80:ILE:HG13	2.13	0.48
18:BC:36:ASN:O	18:BC:40:GLN:HG2	2.12	0.48
23:BK:177:ALA:O	23:BK:181:LEU:HB2	2.13	0.48
2:AV:281:ASN:N	2:AV:284:GLU:HB3	2.27	0.48
2:AV:440:LYS:NZ	10:Ad:146:GLY:HA3	2.28	0.48
8:Ab:164:ASP:HB2	8:Ab:166:THR:HG22	1.95	0.48
9:Ac:154:LYS:CE	15:AD:81:ARG:HH22	2.12	0.48
12:Af:275:MET:SD	12:Af:303:VAL:HB	2.54	0.48
12:Af:344:VAL:HG23	12:Af:346:ASP:HB2	1.93	0.48
15:AD:412:GLN:H	15:AD:415:GLU:HB2	1.79	0.48
16:AE:113:ARG:HB3	16:AE:221:TYR:OH	2.13	0.48
20:AH:42:ASN:N	20:AH:42:ASN:OD1	2.46	0.48
24:AL:184:LEU:HD23	24:AL:214:ILE:HG21	1.95	0.48
27:AO:112:SER:HB3	27:AO:125:VAL:HG11	1.94	0.48
27:AO:132:LEU:HD13	32:BT:144:TYR:HB3	1.95	0.48
32:AT:190:ALA:HB2	32:AT:199:ILE:HG23	1.93	0.48
1:BU:176:MET:HA	1:BU:179:TYR:HD1	1.77	0.48
7:Ba:340:VAL:HG12	7:Ba:341:LEU:N	2.27	0.48
12:Bf:441:LYS:NZ	12:Bf:442:SER:O	2.45	0.48
12:Bf:762:VAL:O	12:Bf:766:GLN:HG2	2.14	0.48
12:Bf:776:LEU:N	12:Bf:777:THR:O	2.46	0.48
13:BA:390:THR:HG21	14:BB:218:PRO:HB3	1.96	0.48
14:BB:251:VAL:HG13	14:BB:285:ASP:O	2.13	0.48
15:BD:344:ILE:HA	15:BD:347:THR:HG22	1.94	0.48
17:BF:363:ALA:HB1	17:BF:381:TYR:HB3	1.95	0.48
29:BQ:21:ALA:HB2	29:BQ:34:LYS:HZ1	1.78	0.48
1:AU:73:ALA:HB1	1:AU:76:GLU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:54:LYS:N	2:AV:55:THR:OG1	2.47	0.48
3:AW:136:ILE:HD11	15:AD:392:TYR:CD1	2.47	0.48
8:Ab:50:GLY:N	8:Ab:64:LEU:HD12	2.28	0.48
9:Ac:33:ILE:HD11	9:Ac:207:TYR:HD1	1.78	0.48
12:Af:379:GLY:O	12:Af:383:ALA:HB3	2.14	0.48
12:Af:557:TRP:HZ2	12:Af:849:ALA:O	1.97	0.48
14:AB:240:ALA:O	14:AB:243:THR:OG1	2.19	0.48
15:AD:81:ARG:CG	15:AD:82:ILE:HD12	2.43	0.48
15:AD:337:ASP:O	15:AD:341:LYS:N	2.31	0.48
19:AG:84:THR:HB	25:AM:156:VAL:HG22	1.96	0.48
23:AK:196:LYS:HA	23:AK:199:LEU:HG	1.94	0.48
28:AP:148:GLY:CA	31:BS:144:MET:HB3	2.43	0.48
29:AQ:4:LEU:HB3	29:AQ:17:SER:HA	1.95	0.48
30:AR:81:LYS:HD3	30:AR:120:ARG:NH1	2.28	0.48
1:BU:265:ILE:HG12	1:BU:269:ARG:HH11	1.78	0.48
3:BW:90:LEU:CD2	15:BD:390:ASN:HB3	2.42	0.48
6:BZ:59:ASP:OD2	8:Bb:99:HIS:NE2	2.46	0.48
12:Bf:420:TRP:O	12:Bf:423:ASP:HB3	2.14	0.48
12:Bf:479:LEU:HA	12:Bf:517:VAL:HG13	1.94	0.48
12:Bf:609:VAL:HB	12:Bf:631:LYS:NZ	2.27	0.48
12:Bf:640:LYS:NZ	12:Bf:664:GLU:OE1	2.29	0.48
15:BD:381:GLU:HG3	15:BD:406:VAL:HG11	1.95	0.48
17:BF:304:ARG:O	17:BF:308:ARG:CB	2.59	0.48
18:BC:266:ASP:O	18:BC:269:VAL:N	2.44	0.48
18:BC:369:TYR:HB2	18:BC:382:ASP:OD1	2.14	0.48
21:BI:38:LEU:H	21:BI:38:LEU:HD12	1.78	0.48
21:BI:48:GLU:HA	21:BI:211:VAL:HA	1.95	0.48
29:BQ:157:VAL:O	29:BQ:161:ARG:HG2	2.12	0.48
32:BT:7:THR:OG1	32:BT:182:ARG:NH2	2.46	0.48
2:AV:55:THR:HB	2:AV:198:GLN:CD	2.37	0.48
3:AW:51:GLU:OE1	3:AW:51:GLU:N	2.46	0.48
3:AW:446:ILE:HG21	6:AZ:157:HIS:HB2	1.94	0.48
6:AZ:236:LEU:HD21	7:Aa:335:TRP:HD1	1.77	0.48
11:Ae:62:LYS:HZ3	11:Ae:66:LYS:HD3	1.78	0.48
14:AB:418:ASP:O	14:AB:422:SER:OG	2.31	0.48
15:AD:381:GLU:HG3	15:AD:406:VAL:HG11	1.95	0.48
16:AE:55:GLN:HB3	16:AE:100:LEU:O	2.14	0.48
17:AF:94:ILE:HD11	17:AF:125:LYS:HG2	1.96	0.48
21:AI:235:GLN:O	21:AI:239:LYS:CB	2.60	0.48
23:AK:177:ALA:O	23:AK:181:LEU:HB2	2.13	0.48
1:BU:403:THR:HG23	1:BU:777:HIS:HE2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:478:SER:OG	1:BU:511:ALA:HB1	2.12	0.48
2:BV:234:ARG:O	2:BV:237:THR:HG22	2.13	0.48
5:BY:333:GLU:HA	5:BY:336:ARG:HH21	1.77	0.48
5:BY:349:LYS:C	5:BY:351:ASN:H	2.20	0.48
8:Bb:20:ASP:OD1	8:Bb:25:ARG:NE	2.39	0.48
13:BA:139:ARG:HD2	13:BA:156:LYS:HA	1.95	0.48
13:BA:344:SER:OG	13:BA:344:SER:O	2.28	0.48
14:BB:418:ASP:O	14:BB:422:SER:OG	2.31	0.48
15:BD:43:ARG:HA	15:BD:46:LYS:HB2	1.94	0.48
15:BD:89:ILE:O	15:BD:106:THR:OG1	2.25	0.48
15:BD:246:MET:O	15:BD:250:VAL:HG23	2.13	0.48
19:BG:84:THR:HB	25:BM:156:VAL:HG22	1.96	0.48
22:BJ:131:ALA:H	22:BJ:147:THR:HG1	1.60	0.48
24:BL:157:ARG:HG3	24:BL:176:MET:HE2	1.96	0.48
29:BQ:38:MET:O	29:BQ:65:GLN:NE2	2.47	0.48
31:BS:169:ASP:OD2	31:BS:173:ARG:NH1	2.46	0.48
1:AU:265:ILE:HG12	1:AU:269:ARG:HH11	1.78	0.48
1:AU:506:ALA:HB2	1:AU:541:HIS:HB3	1.96	0.48
6:AZ:43:TRP:HZ3	6:AZ:48:LEU:HD12	1.78	0.48
8:Ab:164:ASP:H	8:Ab:165:GLY:HA2	1.78	0.48
10:Ad:139:LEU:O	10:Ad:143:LEU:HD13	2.13	0.48
14:AB:272:ARG:O	14:AB:276:GLU:HG2	2.13	0.48
16:AE:97:ARG:CZ	16:AE:114:GLU:HG2	2.44	0.48
16:AE:316:HIS:NE2	16:AE:344:ARG:HB3	2.29	0.48
18:AC:223:PHE:HD2	18:AC:224:ILE:HG13	1.77	0.48
21:AI:48:GLU:HA	21:AI:211:VAL:HA	1.95	0.48
21:AI:99:LEU:O	29:AQ:86:ARG:NH2	2.38	0.48
22:AJ:12:PRO:HG3	23:AK:26:TYR:CZ	2.47	0.48
31:AS:144:MET:HB3	28:BP:148:GLY:CA	2.42	0.48
1:BU:113:VAL:HG22	1:BU:158:ARG:HG3	1.94	0.48
3:BW:235:GLN:OE1	3:BW:243:ILE:HD13	2.14	0.48
3:BW:397:VAL:HG21	4:BX:341:PRO:HA	1.95	0.48
5:BY:343:LEU:HD23	5:BY:343:LEU:O	2.14	0.48
8:Bb:50:GLY:N	8:Bb:64:LEU:HD12	2.28	0.48
13:BA:95:VAL:HG12	13:BA:144:ARG:NH1	2.28	0.48
13:BA:299:MET:HG3	13:BA:300:LEU:N	2.29	0.48
14:BB:191:ASP:N	14:BB:191:ASP:OD1	2.44	0.48
16:BE:116:ASP:HB3	16:BE:117:PRO:HD3	1.95	0.48
16:BE:207:TYR:OH	17:BF:129:ARG:NH1	2.47	0.48
17:BF:94:ILE:HD11	17:BF:125:LYS:HG2	1.96	0.48
19:BG:73:THR:HG22	19:BG:74:GLU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BK:84:ASP:OD1	23:BK:135:ARG:NH2	2.45	0.48
28:BP:11:VAL:HG23	28:BP:54:ALA:HB2	1.95	0.48
1:AU:24:LEU:HD13	1:AU:59:PHE:CD2	2.48	0.48
1:AU:35:TRP:HB3	1:AU:70:HIS:CD2	2.49	0.48
1:AU:216:VAL:HG21	1:AU:232:ILE:HD13	1.95	0.48
2:AV:207:ALA:HA	2:AV:210:CYS:SG	2.54	0.48
3:AW:392:PHE:O	3:AW:396:LEU:HG	2.12	0.48
3:AW:423:ASN:N	3:AW:423:ASN:OD1	2.46	0.48
3:AW:441:LYS:NZ	6:AZ:207:ASP:OD2	2.46	0.48
7:Aa:214:GLY:HA2	7:Aa:217:LEU:HD13	1.94	0.48
12:Af:530:CYS:SG	12:Af:531:ASN:N	2.86	0.48
13:AA:299:MET:HG3	13:AA:300:LEU:N	2.28	0.48
13:AA:355:PHE:O	13:AA:359:ALA:CB	2.60	0.48
14:AB:100:ASP:CB	14:AB:103:ARG:NH1	2.54	0.48
14:AB:232:LYS:H	35:AB:501:ADP:PB	2.37	0.48
14:AB:395:ILE:O	14:AB:398:ILE:HG12	2.14	0.48
15:AD:344:ILE:HA	15:AD:347:THR:HG22	1.94	0.48
18:AC:167:LEU:HD23	18:AC:171:HIS:HB2	1.94	0.48
18:AC:369:TYR:HB2	18:AC:382:ASP:OD1	2.14	0.48
23:AK:117:SER:HA	23:AK:120:ALA:HB2	1.95	0.48
24:AL:138:ASP:OD2	32:AT:81:HIS:NE2	2.44	0.48
1:BU:506:ALA:HB2	1:BU:541:HIS:HB3	1.96	0.48
2:BV:134:PHE:HA	2:BV:137:GLU:OE1	2.14	0.48
4:BX:406:ASN:HB2	5:BY:376:LEU:HD11	1.94	0.48
6:BZ:52:ASN:OD1	6:BZ:53:SER:N	2.40	0.48
7:Ba:197:ALA:HA	7:Ba:200:LEU:HB3	1.96	0.48
12:Bf:530:CYS:C	12:Bf:532:GLY:HA2	2.38	0.48
12:Bf:626:GLU:OE2	12:Bf:655:LEU:HG	2.14	0.48
12:Bf:734:SER:HB3	12:Bf:768:LEU:HG	1.94	0.48
13:BA:328:ASP:HB3	13:BA:329:PRO:HD3	1.96	0.48
14:BB:173:VAL:HG12	18:BC:232:ARG:HG2	1.94	0.48
14:BB:267:VAL:HA	14:BB:270:LEU:HD12	1.95	0.48
16:BE:371:VAL:O	16:BE:375:ALA:HB2	2.12	0.48
17:BF:244:THR:C	17:BF:246:ALA:H	2.22	0.48
17:BF:336:ASP:OD1	17:BF:336:ASP:N	2.47	0.48
18:BC:214:VAL:HG22	18:BC:215:SER:H	1.78	0.48
19:BG:39:SER:H	19:BG:172:GLN:HE21	1.60	0.48
23:BK:117:SER:HA	23:BK:120:ALA:HB2	1.94	0.48
24:BL:47:VAL:HG12	24:BL:195:LEU:HD22	1.96	0.48
27:BO:14:LEU:HB2	27:BO:176:CYS:HB3	1.96	0.48
29:BQ:67:TYR:CD2	29:BQ:75:LEU:HG	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:139:GLU:HG2	3:AW:142:ARG:HB2	1.95	0.48
4:AX:80:ILE:HD12	4:AX:81:SER:O	2.13	0.48
6:AZ:237:LEU:HB2	6:AZ:239:ASP:HB3	1.94	0.48
8:Ab:97:LEU:HD23	8:Ab:107:MET:HB3	1.96	0.48
12:Af:659:LEU:O	12:Af:663:GLY:HA3	2.14	0.48
15:AD:200:ARG:HH22	15:AD:300:ASP:CG	2.21	0.48
16:AE:145:LEU:HD21	16:AE:299:ILE:HD13	1.95	0.48
16:AE:207:TYR:OH	17:AF:129:ARG:NH1	2.47	0.48
1:BU:725:MET:HE1	9:Bc:182:GLY:HA3	1.94	0.48
3:BW:423:ASN:N	3:BW:423:ASN:OD1	2.46	0.48
12:Bf:275:MET:SD	12:Bf:303:VAL:HB	2.54	0.48
12:Bf:680:ARG:HH21	13:BA:74:PRO:HG2	1.78	0.48
12:Bf:694:LEU:HD22	12:Bf:728:ALA:HB1	1.95	0.48
12:Bf:803:PHE:HE1	12:Bf:807:ARG:HH21	1.60	0.48
15:BD:136:SER:N	18:BC:67:GLN:OE1	2.47	0.48
16:BE:113:ARG:HB3	16:BE:221:TYR:OH	2.13	0.48
17:BF:120:LYS:HG2	17:BF:136:VAL:HG21	1.96	0.48
17:BF:229:PRO:HA	17:BF:230:GLY:HA2	1.55	0.48
17:BF:249:LEU:HB2	17:BF:283:ILE:HG13	1.95	0.48
17:BF:314:LEU:HG	17:BF:347:ARG:HE	1.79	0.48
17:BF:439:ALA:OXT	24:BL:51:ARG:NH2	2.47	0.48
19:BG:120:ASP:OD1	20:BH:84:ARG:NH1	2.47	0.48
23:BK:11:GLY:O	23:BK:12:VAL:HG22	2.12	0.48
25:BM:122:TYR:CD1	25:BM:128:VAL:HG21	2.48	0.48
26:BN:20:THR:HG1	26:BN:33:LYS:HZ1	1.54	0.48
29:BQ:4:LEU:HB3	29:BQ:17:SER:HA	1.95	0.48
1:AU:567:ILE:HD13	1:AU:570:LEU:HD12	1.96	0.48
3:AW:141:GLU:OE2	15:AD:392:TYR:CD1	2.65	0.48
3:AW:148:THR:O	3:AW:151:THR:OG1	2.29	0.48
9:Ac:244:VAL:HA	9:Ac:247:GLU:HB2	1.95	0.48
10:Ad:201:ASN:OD1	10:Ad:201:ASN:N	2.46	0.48
12:Af:680:ARG:HH21	13:AA:74:PRO:HG2	1.78	0.48
12:Af:694:LEU:HD23	12:Af:706:ILE:HG23	1.95	0.48
14:AB:116:ILE:HB	14:AB:120:HIS:O	2.14	0.48
17:AF:318:ASP:HB2	17:AF:347:ARG:HH12	1.79	0.48
18:AC:135:VAL:O	18:AC:139:MET:HG2	2.14	0.48
20:AH:121:TYR:O	20:AH:124:SER:OG	2.32	0.48
29:AQ:88:LEU:HD23	29:AQ:122:ALA:HA	1.94	0.48
1:BU:24:LEU:HD13	1:BU:59:PHE:CD2	2.48	0.48
1:BU:566:LEU:O	1:BU:570:LEU:HG	2.13	0.48
1:BU:724:VAL:HA	1:BU:727:LYS:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BW:392:PHE:O	3:BW:396:LEU:HG	2.12	0.48
5:BY:64:GLN:HG2	5:BY:65:ILE:HG22	1.96	0.48
8:Bb:8:VAL:HA	8:Bb:110:ILE:HG13	1.96	0.48
10:Bd:201:ASN:OD1	10:Bd:201:ASN:N	2.46	0.48
12:Bf:694:LEU:HD23	12:Bf:706:ILE:HG23	1.95	0.48
12:Bf:763:ARG:HH21	12:Bf:808:ASN:HB3	1.79	0.48
13:BA:119:ALA:HA	17:BF:127:SER:HB3	1.95	0.48
14:BB:217:LYS:C	14:BB:219:PRO:HD3	2.38	0.48
15:BD:282:ASP:O	15:BD:285:VAL:HG22	2.13	0.48
17:BF:357:PRO:HB2	17:BF:362:ARG:HG2	1.95	0.48
17:BF:368:ILE:O	17:BF:371:ARG:HG2	2.13	0.48
18:BC:303:SER:O	18:BC:307:ARG:HG2	2.14	0.48
20:BH:181:ASP:N	20:BH:181:ASP:OD1	2.47	0.48
22:BJ:104:VAL:HB	22:BJ:143:ARG:HD3	1.96	0.48
26:BN:127:ILE:HD12	26:BN:136:TYR:CD1	2.49	0.48
29:BQ:88:LEU:HD23	29:BQ:122:ALA:HA	1.94	0.48
4:AX:124:PHE:CD1	20:AH:189:HIS:CD2	3.02	0.48
5:AY:343:LEU:O	5:AY:343:LEU:HD23	2.14	0.48
9:Ac:156:VAL:HG12	9:Ac:157:ILE:N	2.29	0.48
13:AA:324:PRO:CD	13:AA:432:TYR:HB2	2.42	0.48
14:AB:288:ASP:HB3	14:AB:292:THR:HG23	1.95	0.48
17:AF:204:LEU:HB2	17:AF:212:PHE:CZ	2.49	0.48
27:AO:34:ILE:HG12	27:AO:44:CYS:SG	2.54	0.48
29:AQ:38:MET:O	29:AQ:65:GLN:NE2	2.47	0.48
29:AQ:145:ARG:HD3	30:BR:158:ARG:CG	2.05	0.48
30:AR:199:TYR:HD1	29:BQ:145:ARG:HH22	1.61	0.48
31:AS:2:PHE:CG	32:AT:105:PRO:HG3	2.49	0.48
2:BV:207:ALA:HA	2:BV:210:CYS:SG	2.54	0.48
2:BV:235:LEU:HD12	2:BV:247:GLN:HG3	1.95	0.48
2:BV:440:LYS:NZ	10:Bd:146:GLY:HA3	2.29	0.48
10:Bd:48:LEU:O	10:Bd:52:ARG:HG3	2.13	0.48
12:Bf:350:LYS:HZ2	12:Bf:827:PRO:HA	1.79	0.48
14:BB:116:ILE:HB	14:BB:120:HIS:O	2.14	0.48
14:BB:190:LEU:HB2	14:BB:193:GLN:HB3	1.95	0.48
14:BB:314:ASN:HA	14:BB:317:ASP:HB2	1.96	0.48
16:BE:291:ARG:HG3	16:BE:292:PRO:O	2.13	0.48
17:BF:86:LEU:C	17:BF:88:TYR:H	2.20	0.48
17:BF:318:ASP:HB2	17:BF:347:ARG:HH12	1.79	0.48
17:BF:373:MET:SD	17:BF:373:MET:N	2.86	0.48
21:BI:47:ALA:HB1	21:BI:64:LYS:HD2	1.96	0.48
22:BJ:51:ALA:C	22:BJ:53:LEU:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BM:66:LEU:HD13	25:BM:214:SER:HB2	1.95	0.48
2:AV:273:LYS:HA	2:AV:274:SER:HB2	1.95	0.48
6:AZ:210:SER:HB2	6:AZ:214:LYS:NZ	2.29	0.48
9:Ac:147:PRO:HG2	9:Ac:148:ILE:HD12	1.96	0.48
9:Ac:188:SER:CA	9:Ac:189:ILE:HG22	2.42	0.48
12:Af:680:ARG:CZ	13:AA:74:PRO:HG2	2.44	0.48
12:Af:821:LEU:H	12:Af:823:ALA:CA	2.24	0.48
13:AA:176:ASP:HA	13:AA:357:ILE:CD1	2.44	0.48
14:AB:251:VAL:HG13	14:AB:285:ASP:O	2.14	0.48
15:AD:285:VAL:HA	15:AD:288:ILE:HB	1.96	0.48
16:AE:180:LYS:HG2	34:AE:401:ATP:O2B	2.14	0.48
17:AF:86:LEU:C	17:AF:88:TYR:H	2.20	0.48
17:AF:120:LYS:HG2	17:AF:136:VAL:HG21	1.96	0.48
18:AC:60:ARG:O	18:AC:64:GLN:HG2	2.14	0.48
20:AH:3:GLU:HG3	20:AH:5:GLY:H	1.78	0.48
21:AI:239:LYS:O	21:AI:243:GLU:HG2	2.14	0.48
29:AQ:115:LEU:O	29:AQ:126:LYS:HD2	2.14	0.48
32:AT:7:THR:OG1	32:AT:182:ARG:NH2	2.46	0.48
32:AT:25:ASP:HA	32:AT:187:PHE:HA	1.95	0.48
1:BU:493:VAL:HG21	1:BU:519:VAL:HG11	1.96	0.48
3:BW:51:GLU:OE1	3:BW:51:GLU:N	2.46	0.48
3:BW:100:ALA:O	3:BW:104:MET:HG2	2.14	0.48
4:BX:80:ILE:HD12	4:BX:81:SER:O	2.13	0.48
4:BX:406:ASN:HA	4:BX:409:LYS:HD3	1.94	0.48
4:BX:410:VAL:O	4:BX:413:SER:OG	2.30	0.48
5:BY:334:LEU:O	5:BY:338:ILE:HG13	2.14	0.48
6:BZ:136:GLU:OE2	6:BZ:157:HIS:ND1	2.46	0.48
6:BZ:211:TYR:HD2	7:Ba:353:LEU:HD21	1.79	0.48
10:Bd:49:ILE:HD11	10:Bd:89:LEU:HD22	1.96	0.48
13:BA:176:ASP:HA	13:BA:357:ILE:CD1	2.44	0.48
18:BC:138:MET:O	18:BC:142:LYS:HG2	2.12	0.48
20:BH:6:TYR:CG	20:BH:7:SER:N	2.82	0.48
23:BK:41:GLN:N	23:BK:166:ASP:O	2.35	0.48
24:BL:157:ARG:HH21	25:BM:56:LYS:HD2	1.79	0.48
25:BM:83:ASP:HB2	25:BM:133:CYS:SG	2.53	0.48
25:BM:106:ILE:HD12	25:BM:107:PRO:HD2	1.94	0.48
27:BO:34:ILE:HG12	27:BO:44:CYS:SG	2.54	0.48
3:AW:35:ALA:HB2	3:AW:48:LEU:HD11	1.96	0.47
4:AX:242:ILE:HG13	4:AX:243:ASP:H	1.79	0.47
4:AX:406:ASN:HA	4:AX:409:LYS:HB2	1.96	0.47
5:AY:334:LEU:O	5:AY:338:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AZ:191:ILE:O	6:AZ:195:VAL:HG23	2.13	0.47
10:Ad:49:ILE:HD11	10:Ad:89:LEU:HD22	1.96	0.47
13:AA:328:ASP:HB3	13:AA:329:PRO:HD3	1.96	0.47
15:AD:238:LYS:NZ	16:AE:74:THR:O	2.31	0.47
15:AD:389:GLU:HB3	15:AD:390:ASN:C	2.39	0.47
16:AE:345:ASN:ND2	17:AF:345:SER:N	2.57	0.47
17:AF:76:ASN:O	17:AF:80:ILE:HG13	2.13	0.47
21:AI:164:ILE:HA	21:AI:165:GLY:HA2	1.65	0.47
26:AN:26:ILE:HG13	32:BT:181:ALA:N	2.23	0.47
26:AN:173:VAL:HG22	26:AN:174:ILE:H	1.79	0.47
27:AO:208:THR:OG1	31:BS:159:GLN:C	2.57	0.47
1:BU:842:LYS:HA	1:BU:843:GLU:CB	2.41	0.47
2:BV:54:LYS:N	2:BV:55:THR:OG1	2.47	0.47
2:BV:80:LYS:CE	2:BV:86:VAL:HB	2.44	0.47
2:BV:273:LYS:HA	2:BV:274:SER:HB2	1.95	0.47
3:BW:98:LYS:HD3	3:BW:138:VAL:HB	1.95	0.47
12:Bf:247:ALA:O	12:Bf:251:CYS:CB	2.62	0.47
12:Bf:839:PRO:HG2	12:Bf:850:VAL:HG21	1.96	0.47
13:BA:125:LEU:HD21	13:BA:131:PRO:HA	1.95	0.47
15:BD:384:MET:CA	15:BD:387:VAL:HG12	2.43	0.47
16:BE:97:ARG:CZ	16:BE:114:GLU:HG2	2.44	0.47
16:BE:316:HIS:NE2	16:BE:344:ARG:HB3	2.29	0.47
18:BC:83:LYS:HG2	18:BC:105:ILE:HD11	1.96	0.47
27:BO:7:VAL:HG22	27:BO:12:ILE:HG12	1.94	0.47
1:AU:26:LYS:HD2	10:Ad:34:ASN:ND2	2.29	0.47
2:AV:80:LYS:HA	2:AV:80:LYS:HD3	1.61	0.47
2:AV:134:PHE:HA	2:AV:137:GLU:OE1	2.14	0.47
5:AY:138:LEU:HD22	5:AY:168:ILE:HD11	1.96	0.47
10:Ad:170:LEU:HA	10:Ad:173:THR:HG22	1.96	0.47
12:Af:420:TRP:O	12:Af:423:ASP:HB3	2.14	0.47
12:Af:530:CYS:C	12:Af:532:GLY:HA2	2.38	0.47
15:AD:136:SER:N	18:AC:67:GLN:OE1	2.47	0.47
16:AE:345:ASN:HD22	17:AF:345:SER:HB2	1.77	0.47
18:AC:303:SER:O	18:AC:307:ARG:HG2	2.14	0.47
19:AG:34:GLN:N	19:AG:34:GLN:OE1	2.47	0.47
20:AH:6:TYR:CG	20:AH:7:SER:N	2.82	0.47
24:AL:39:LYS:HA	24:AL:44:ALA:HA	1.96	0.47
26:AN:115:PRO:HD2	26:AN:119:MET:O	2.14	0.47
27:AO:210:ALA:CB	31:BS:159:GLN:HE22	2.26	0.47
28:AP:11:VAL:HG23	28:AP:54:ALA:HB2	1.95	0.47
28:AP:147:TYR:HD1	31:BS:185:ARG:NH2	1.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:159:GLN:NE2	27:BO:210:ALA:HA	2.29	0.47
4:BX:258:LYS:HD3	4:BX:266:ASP:HB2	1.95	0.47
10:Bd:189:ILE:HD13	10:Bd:194:ALA:HB2	1.96	0.47
12:Bf:351:THR:HB	12:Bf:353:LEU:HB2	1.97	0.47
12:Bf:557:TRP:HZ2	12:Bf:849:ALA:O	1.97	0.47
12:Bf:760:PHE:CZ	12:Bf:764:LEU:HD13	2.50	0.47
14:BB:103:ARG:HD2	14:BB:103:ARG:C	2.39	0.47
15:BD:285:VAL:HA	15:BD:288:ILE:HB	1.96	0.47
17:BF:403:ALA:HB1	17:BF:415:LEU:HD11	1.95	0.47
18:BC:60:ARG:O	18:BC:64:GLN:HG2	2.14	0.47
24:BL:39:LYS:HA	24:BL:44:ALA:HA	1.96	0.47
30:BR:81:LYS:HD3	30:BR:120:ARG:NH1	2.28	0.47
2:AV:144:ASP:OD1	2:AV:150:ARG:NH2	2.31	0.47
2:AV:234:ARG:O	2:AV:237:THR:HG22	2.13	0.47
2:AV:235:LEU:HD12	2:AV:247:GLN:HG3	1.94	0.47
3:AW:235:GLN:OE1	3:AW:243:ILE:HD13	2.14	0.47
3:AW:397:VAL:HG21	4:AX:341:PRO:HA	1.95	0.47
3:AW:408:ARG:HD2	4:AX:346:GLN:NE2	2.29	0.47
4:AX:134:VAL:HG13	4:AX:172:LEU:HD23	1.97	0.47
4:AX:183:LEU:HB3	4:AX:184:PRO:HD3	1.96	0.47
4:AX:223:LYS:HE2	5:AY:244:ALA:HB2	1.95	0.47
5:AY:78:GLU:OE1	5:AY:81:LEU:HD22	2.13	0.47
6:AZ:59:ASP:CG	8:Ab:99:HIS:HE2	2.21	0.47
7:Aa:197:ALA:HA	7:Aa:200:LEU:HB3	1.96	0.47
9:Ac:241:ASN:ND2	9:Ac:300:LEU:O	2.41	0.47
12:Af:509:LYS:HA	12:Af:515:ALA:HB3	1.96	0.47
12:Af:549:GLU:HB3	12:Af:550:LEU:HA	1.97	0.47
12:Af:709:THR:HA	12:Af:712:LYS:HZ1	1.77	0.47
15:AD:143:LEU:HG	15:AD:144:PRO:HD2	1.96	0.47
15:AD:170:MET:HE2	15:AD:333:PHE:HD1	1.79	0.47
17:AF:137:ILE:HG21	17:AF:160:ILE:H	1.80	0.47
17:AF:244:THR:C	17:AF:246:ALA:H	2.22	0.47
17:AF:265:ALA:O	17:AF:269:ARG:HG3	2.15	0.47
17:AF:314:LEU:HG	17:AF:347:ARG:HE	1.79	0.47
21:AI:47:ALA:HB1	21:AI:64:LYS:HD2	1.96	0.47
26:AN:52:THR:HG22	26:AN:98:ILE:HD11	1.96	0.47
28:AP:175:VAL:O	30:BR:26:ILE:HD12	2.11	0.47
29:AQ:67:TYR:CD2	29:AQ:75:LEU:HG	2.49	0.47
31:AS:159:GLN:HE22	27:BO:210:ALA:HA	1.72	0.47
32:AT:126:ASP:HB3	32:AT:130:VAL:H	1.79	0.47
1:BU:640:LEU:HD21	15:BD:60:TYR:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:31:ALA:HB3	2:BV:32:PRO:HD3	1.95	0.47
2:BV:255:LEU:CD2	2:BV:291:TYR:HB3	2.39	0.47
3:BW:32:ALA:O	3:BW:36:LYS:HG3	2.15	0.47
3:BW:171:VAL:CG1	15:BD:392:TYR:OH	2.62	0.47
4:BX:318:ILE:HG22	4:BX:321:THR:H	1.79	0.47
4:BX:406:ASN:HA	4:BX:409:LYS:HB2	1.96	0.47
5:BY:78:GLU:OE1	5:BY:81:LEU:HD22	2.13	0.47
6:BZ:43:TRP:HZ3	6:BZ:48:LEU:HD12	1.78	0.47
9:Bc:156:VAL:HG12	9:Bc:157:ILE:N	2.29	0.47
10:Bd:170:LEU:HA	10:Bd:173:THR:HG22	1.96	0.47
12:Bf:495:GLU:HG3	12:Bf:496:ASP:N	2.28	0.47
12:Bf:592:ASN:O	12:Bf:596:ASP:CB	2.62	0.47
13:BA:123:VAL:HG11	13:BA:147:TYR:O	2.14	0.47
14:BB:139:VAL:HB	14:BB:141:LYS:N	2.29	0.47
14:BB:201:VAL:HG23	14:BB:202:GLU:HG2	1.95	0.47
15:BD:170:MET:C	15:BD:172:ILE:H	2.22	0.47
15:BD:283:ARG:HH11	18:BC:222:LYS:HB2	1.80	0.47
16:BE:55:GLN:HB3	16:BE:100:LEU:O	2.14	0.47
18:BC:100:ASP:CG	18:BC:122:THR:HB	2.39	0.47
18:BC:135:VAL:O	18:BC:139:MET:HG2	2.14	0.47
20:BH:80:GLY:HA2	20:BH:83:TYR:HB3	1.96	0.47
21:BI:239:LYS:O	21:BI:243:GLU:HG2	2.14	0.47
27:BO:112:SER:HB3	27:BO:125:VAL:HG11	1.94	0.47
1:AU:640:LEU:HD21	15:AD:60:TYR:HE1	1.79	0.47
1:AU:792:ASN:OD1	1:AU:793:LYS:N	2.44	0.47
2:AV:80:LYS:CE	2:AV:86:VAL:HB	2.44	0.47
2:AV:322:VAL:HG13	2:AV:323:GLY:N	2.27	0.47
3:AW:440:ASN:O	3:AW:443:THR:OG1	2.18	0.47
3:AW:444:HIS:NE2	6:AZ:211:TYR:OH	2.39	0.47
4:AX:176:THR:O	4:AX:180:LEU:HG	2.15	0.47
6:AZ:228:TYR:O	6:AZ:231:GLN:HB3	2.14	0.47
12:Af:247:ALA:O	12:Af:251:CYS:CB	2.62	0.47
13:AA:126:SER:OG	13:AA:150:HIS:O	2.31	0.47
13:AA:313:GLY:C	13:AA:315:ILE:H	2.23	0.47
13:AA:390:THR:HG21	14:AB:218:PRO:HB3	1.96	0.47
17:AF:428:GLN:HA	17:AF:429:ALA:HA	1.48	0.47
19:AG:144:ASP:H	19:AG:150:GLN:HE22	1.60	0.47
24:AL:47:VAL:HG12	24:AL:195:LEU:HD22	1.96	0.47
29:AQ:4:LEU:HD13	29:AQ:17:SER:CB	2.44	0.47
1:BU:350:LEU:HD12	1:BU:353:LEU:HD12	1.96	0.47
3:BW:35:ALA:HB2	3:BW:48:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:242:ILE:HG13	4:BX:243:ASP:H	1.79	0.47
14:BB:187:ILE:HG21	14:BB:236:ALA:HB1	1.96	0.47
16:BE:345:ASN:HD22	17:BF:345:SER:HB2	1.77	0.47
16:BE:360:ASP:OD1	16:BE:360:ASP:N	2.44	0.47
17:BF:85:THR:HA	17:BF:86:LEU:HA	1.69	0.47
18:BC:193:GLY:H	18:BC:355:SER:HB2	1.79	0.47
19:BG:34:GLN:OE1	19:BG:34:GLN:N	2.47	0.47
32:BT:25:ASP:HA	32:BT:187:PHE:HA	1.95	0.47
1:AU:261:LEU:HA	1:AU:264:VAL:HG12	1.97	0.47
2:AV:153:LYS:O	2:AV:157:THR:CG2	2.57	0.47
3:AW:446:ILE:HD13	6:AZ:157:HIS:HB2	1.97	0.47
5:AY:64:GLN:HG2	5:AY:65:ILE:HG22	1.96	0.47
6:AZ:81:MET:HE1	9:Ac:94:LYS:HB3	1.96	0.47
7:Aa:214:GLY:O	7:Aa:241:ASN:ND2	2.48	0.47
8:Ab:16:MET:O	8:Ab:25:ARG:HB2	2.14	0.47
12:Af:351:THR:HB	12:Af:353:LEU:HB2	1.96	0.47
12:Af:489:TYR:HB3	12:Af:495:GLU:HG2	1.97	0.47
12:Af:763:ARG:HH21	12:Af:808:ASN:HB3	1.79	0.47
13:AA:94:GLN:O	13:AA:96:ALA:N	2.48	0.47
13:AA:95:VAL:HG12	13:AA:144:ARG:NH1	2.29	0.47
14:AB:201:VAL:HG23	14:AB:202:GLU:HG2	1.95	0.47
17:AF:235:LEU:O	17:AF:239:ALA:CB	2.63	0.47
18:AC:170:LYS:C	18:AC:172:PRO:HD3	2.39	0.47
20:AH:139:TRP:HA	20:AH:144:PRO:HA	1.97	0.47
23:AK:166:ASP:HB2	24:AL:56:LEU:HB2	1.95	0.47
27:AO:199:LEU:CD2	31:BS:176:LYS:CB	2.91	0.47
32:AT:19:GLY:HA3	32:AT:193:THR:HG22	1.96	0.47
3:BW:446:ILE:HD13	6:BZ:157:HIS:HB2	1.97	0.47
4:BX:176:THR:O	4:BX:180:LEU:HG	2.15	0.47
4:BX:183:LEU:HB3	4:BX:184:PRO:HD3	1.96	0.47
9:Bc:147:PRO:HG2	9:Bc:148:ILE:HD12	1.96	0.47
12:Bf:552:ASP:HB3	12:Bf:588:ARG:HG2	1.96	0.47
13:BA:126:SER:OG	13:BA:150:HIS:O	2.31	0.47
14:BB:232:LYS:H	35:BB:501:ADP:PB	2.36	0.47
15:BD:233:SER:HB2	16:BE:255:ARG:HG2	1.96	0.47
16:BE:81:VAL:HG11	16:BE:105:LEU:O	2.15	0.47
16:BE:178:THR:OG1	34:BE:401:ATP:O2B	2.33	0.47
17:BF:92:ASN:HA	17:BF:149:ASP:HA	1.95	0.47
17:BF:204:LEU:HB2	17:BF:212:PHE:CZ	2.49	0.47
18:BC:361:GLY:O	18:BC:365:GLU:HB2	2.14	0.47
23:BK:196:LYS:O	23:BK:200:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BM:56:LYS:N	25:BM:57:LEU:HA	2.29	0.47
1:AU:185:MET:HE1	1:AU:191:LYS:HE3	1.97	0.47
10:Ad:147:SER:HA	10:Ad:148:TYR:CB	2.38	0.47
10:Ad:189:ILE:HD13	10:Ad:194:ALA:HB2	1.96	0.47
12:Af:833:PHE:O	12:Af:837:LEU:HG	2.15	0.47
13:AA:189:GLU:O	13:AA:194:PRO:HD3	2.15	0.47
14:AB:103:ARG:HD2	14:AB:103:ARG:C	2.39	0.47
14:AB:267:VAL:HA	14:AB:270:LEU:HD12	1.95	0.47
16:AE:116:ASP:HB3	16:AE:117:PRO:HD3	1.95	0.47
16:AE:310:LEU:O	16:AE:314:LYS:NZ	2.41	0.47
17:AF:368:ILE:O	17:AF:371:ARG:HG2	2.13	0.47
20:AH:111:VAL:O	20:AH:115:ALA:HB2	2.15	0.47
21:AI:38:LEU:HD12	21:AI:38:LEU:H	1.78	0.47
23:AK:196:LYS:O	23:AK:200:ILE:HG13	2.15	0.47
25:AM:56:LYS:N	25:AM:57:LEU:HA	2.29	0.47
27:AO:135:MET:HG2	32:BT:179:ARG:HD2	1.97	0.47
1:BU:26:LYS:HD2	10:Bd:34:ASN:ND2	2.29	0.47
1:BU:340:GLN:HG3	1:BU:880:ASN:HB3	1.97	0.47
4:BX:124:PHE:CD1	20:BH:189:HIS:CD2	3.02	0.47
8:Bb:16:MET:O	8:Bb:25:ARG:HB2	2.14	0.47
8:Bb:164:ASP:HB2	8:Bb:166:THR:HG22	1.95	0.47
12:Bf:294:MET:O	12:Bf:298:LEU:N	2.33	0.47
12:Bf:369:ARG:NH1	12:Bf:371:ASN:HD22	2.13	0.47
15:BD:117:SER:CB	18:BC:59:LEU:HD12	2.45	0.47
15:BD:353:ASN:O	15:BD:394:VAL:HG12	2.15	0.47
18:BC:117:ARG:HD3	18:BC:122:THR:OG1	2.14	0.47
18:BC:170:LYS:C	18:BC:172:PRO:HD3	2.39	0.47
20:BH:69:THR:HG22	20:BH:70:LYS:H	1.80	0.47
20:BH:121:TYR:O	20:BH:124:SER:OG	2.32	0.47
24:BL:200:PRO:HD2	24:BL:203:GLN:HE22	1.79	0.47
25:BM:40:ARG:N	25:BM:161:TRP:O	2.44	0.47
1:AU:427:LEU:HD23	1:AU:429:LYS:NZ	2.29	0.47
2:AV:259:LEU:HD11	2:AV:294:ARG:HD2	1.97	0.47
3:AW:240:TYR:CD1	3:AW:276:LEU:HB3	2.50	0.47
4:AX:194:ARG:C	18:AC:385:MET:SD	2.98	0.47
5:AY:183:TYR:OH	5:AY:212:GLU:HB2	2.15	0.47
7:Aa:32:LYS:HB2	8:Ab:20:ASP:HA	1.96	0.47
7:Aa:193:GLN:HA	7:Aa:196:ARG:HB3	1.96	0.47
9:Ac:227:GLU:HB2	9:Ac:230:THR:HA	1.96	0.47
12:Af:495:GLU:HG3	12:Af:496:ASP:N	2.28	0.47
12:Af:552:ASP:HB3	12:Af:588:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:553:THR:OG1	12:Af:845:ARG:NH2	2.46	0.47
12:Af:560:LEU:O	12:Af:564:LEU:HD13	2.15	0.47
12:Af:626:GLU:OE2	12:Af:655:LEU:HG	2.14	0.47
12:Af:744:MET:HG2	12:Af:748:LEU:HD11	1.96	0.47
14:AB:346:ARG:HG3	14:AB:349:ARG:H	1.80	0.47
16:AE:81:VAL:HG11	16:AE:105:LEU:O	2.15	0.47
17:AF:188:ILE:HD13	17:AF:191:LEU:HD22	1.97	0.47
17:AF:233:LYS:N	34:AF:501:ATP:O2B	2.48	0.47
17:AF:439:ALA:OXT	24:AL:51:ARG:NH2	2.47	0.47
18:AC:83:LYS:HG2	18:AC:105:ILE:HD11	1.96	0.47
18:AC:117:ARG:HD3	18:AC:122:THR:OG1	2.13	0.47
18:AC:193:GLY:H	18:AC:355:SER:HB2	1.79	0.47
18:AC:217:SER:CB	18:AC:218:GLU:HB3	2.31	0.47
19:AG:60:LEU:HD13	25:AM:162:GLY:O	2.15	0.47
19:AG:116:LYS:HG2	19:AG:160:TYR:CZ	2.50	0.47
21:AI:3:ARG:H	24:AL:123:TYR:HH	1.63	0.47
22:AJ:37:GLY:O	22:AJ:142:PRO:HB3	2.15	0.47
22:AJ:98:VAL:HG22	30:AR:78:ALA:HB1	1.96	0.47
22:AJ:104:VAL:HB	22:AJ:143:ARG:HD3	1.96	0.47
23:AK:10:ARG:O	23:AK:12:VAL:N	2.47	0.47
24:AL:157:ARG:HG3	24:AL:176:MET:HE2	1.96	0.47
24:AL:200:PRO:HD2	24:AL:203:GLN:HE22	1.79	0.47
26:AN:26:ILE:HD13	32:BT:179:ARG:N	2.01	0.47
26:AN:134:TYR:CE1	32:BT:33:LEU:HD22	2.45	0.47
27:AO:199:LEU:CD2	31:BS:176:LYS:HB2	2.45	0.47
28:AP:58:THR:O	29:AQ:85:ARG:NH2	2.48	0.47
31:AS:151:ASN:ND2	28:BP:173:ASN:HD21	2.06	0.47
1:BU:32:ASN:OD1	1:BU:33:ASP:N	2.43	0.47
1:BU:35:TRP:HB3	1:BU:70:HIS:CD2	2.49	0.47
1:BU:73:ALA:HB1	1:BU:76:GLU:HB3	1.95	0.47
1:BU:630:PRO:HA	1:BU:659:CYS:SG	2.55	0.47
1:BU:766:PHE:HD1	1:BU:776:SER:HA	1.80	0.47
2:BV:59:ALA:HA	2:BV:60:ALA:C	2.40	0.47
6:BZ:190:ARG:NH2	7:Ba:375:LEU:HB2	2.30	0.47
6:BZ:210:SER:HB2	6:BZ:214:LYS:NZ	2.29	0.47
8:Bb:164:ASP:H	8:Bb:165:GLY:HA2	1.78	0.47
9:Bc:59:GLY:HA2	9:Bc:70:ILE:HG22	1.97	0.47
9:Bc:227:GLU:HB2	9:Bc:230:THR:HA	1.96	0.47
12:Bf:489:TYR:HB3	12:Bf:495:GLU:HG2	1.97	0.47
12:Bf:680:ARG:CZ	13:BA:74:PRO:HG2	2.44	0.47
13:BA:125:LEU:HB3	13:BA:149:ILE:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:290:GLY:HA2	13:BA:291:GLY:HA3	1.66	0.47
13:BA:313:GLY:C	13:BA:315:ILE:H	2.23	0.47
14:BB:428:TYR:O	14:BB:432:GLU:N	2.46	0.47
15:BD:143:LEU:HG	15:BD:144:PRO:HD2	1.96	0.47
15:BD:253:LEU:HA	15:BD:256:GLU:HB3	1.96	0.47
15:BD:258:ALA:HA	15:BD:259:PRO:C	2.40	0.47
15:BD:352:MET:HE1	15:BD:380:GLN:HA	1.97	0.47
15:BD:412:GLN:H	15:BD:415:GLU:HB2	1.79	0.47
15:BD:414:HIS:CE1	19:BG:25:VAL:HB	2.50	0.47
16:BE:61:LEU:HD11	16:BE:72:LYS:HB2	1.96	0.47
16:BE:180:LYS:HG2	34:BE:401:ATP:O2B	2.14	0.47
17:BF:188:ILE:HD13	17:BF:191:LEU:HD22	1.97	0.47
18:BC:88:LYS:HD2	18:BC:94:LYS:HE3	1.97	0.47
18:BC:217:SER:CB	18:BC:218:GLU:HB3	2.31	0.47
18:BC:255:GLY:N	18:BC:256:SER:HB2	2.30	0.47
21:BI:185:THR:OG1	21:BI:185:THR:O	2.33	0.47
21:BI:229:LYS:N	21:BI:232:GLU:OE2	2.43	0.47
24:BL:66:VAL:HG11	24:BL:88:MET:HG3	1.97	0.47
29:BQ:4:LEU:HD13	29:BQ:17:SER:CB	2.44	0.47
29:BQ:115:LEU:O	29:BQ:126:LYS:HD2	2.14	0.47
2:AV:59:ALA:HA	2:AV:60:ALA:C	2.40	0.47
4:AX:318:ILE:HG22	4:AX:321:THR:H	1.79	0.47
8:Ab:18:ASN:HD21	8:Ab:25:ARG:NH2	2.13	0.47
8:Ab:87:CYS:SG	8:Ab:127:LEU:HD11	2.55	0.47
12:Af:246:SER:O	12:Af:250:ARG:HG2	2.15	0.47
12:Af:739:ALA:HB1	13:AA:169:LYS:HD3	1.96	0.47
12:Af:760:PHE:O	12:Af:764:LEU:CB	2.63	0.47
12:Af:801:VAL:O	12:Af:804:LEU:HG	2.15	0.47
13:AA:277:ILE:HD12	13:AA:319:MET:SD	2.55	0.47
14:AB:139:VAL:HB	14:AB:141:LYS:N	2.29	0.47
14:AB:184:TYR:HD2	14:AB:240:ALA:HB1	1.80	0.47
14:AB:314:ASN:HA	14:AB:317:ASP:HB2	1.96	0.47
15:AD:212:LYS:HD3	34:AD:501:ATP:O1G	2.15	0.47
18:AC:361:GLY:O	18:AC:365:GLU:HB2	2.14	0.47
19:AG:74:GLU:HB3	19:AG:226:LYS:HD2	1.97	0.47
20:AH:80:GLY:HA2	20:AH:83:TYR:HB3	1.96	0.47
29:AQ:21:ALA:HB2	29:AQ:34:LYS:HZ1	1.78	0.47
1:BU:261:LEU:HA	1:BU:264:VAL:HG12	1.96	0.47
4:BX:134:VAL:HG13	4:BX:172:LEU:HD23	1.96	0.47
5:BY:173:ASP:HA	18:BC:335:LYS:HA	1.97	0.47
6:BZ:81:MET:HE1	9:Bc:94:LYS:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bb:97:LEU:HD23	8:Bb:107:MET:HB3	1.96	0.47
12:Bf:246:SER:O	12:Bf:250:ARG:HG2	2.15	0.47
12:Bf:379:GLY:O	12:Bf:383:ALA:HB3	2.14	0.47
12:Bf:659:LEU:O	12:Bf:663:GLY:HA3	2.14	0.47
12:Bf:739:ALA:HB1	13:BA:169:LYS:HD3	1.96	0.47
14:BB:203:LEU:HG	14:BB:211:TYR:CD1	2.50	0.47
14:BB:395:ILE:O	14:BB:398:ILE:HG12	2.14	0.47
15:BD:170:MET:HE2	15:BD:333:PHE:HD1	1.79	0.47
17:BF:150:LEU:HD22	17:BF:164:LEU:HB3	1.95	0.47
17:BF:235:LEU:O	17:BF:239:ALA:CB	2.63	0.47
17:BF:265:ALA:O	17:BF:269:ARG:HG3	2.15	0.47
17:BF:298:SER:HB3	17:BF:299:GLU:HG2	1.97	0.47
19:BG:74:GLU:HB3	19:BG:226:LYS:HD2	1.97	0.47
24:BL:168:ALA:O	24:BL:172:LEU:HG	2.15	0.47
1:AU:340:GLN:HG3	1:AU:880:ASN:HB3	1.97	0.47
1:AU:724:VAL:HA	1:AU:727:LYS:HG2	1.96	0.47
5:AY:357:ASN:CB	5:AY:358:ARG:HA	2.45	0.47
6:AZ:144:VAL:HG12	6:AZ:145:HIS:N	2.30	0.47
6:AZ:164:ALA:HB3	6:AZ:169:GLU:HG3	1.97	0.47
6:AZ:211:TYR:HD2	7:Aa:353:LEU:HD21	1.79	0.47
8:Ab:8:VAL:HA	8:Ab:110:ILE:HG13	1.96	0.47
12:Af:642:ALA:O	12:Af:645:ASP:N	2.45	0.47
12:Af:760:PHE:CZ	12:Af:764:LEU:HD13	2.50	0.47
13:AA:125:LEU:HB3	13:AA:149:ILE:HB	1.97	0.47
14:AB:203:LEU:HG	14:AB:211:TYR:CD1	2.50	0.47
14:AB:230:THR:HG21	14:AB:353:PHE:CE2	2.50	0.47
15:AD:242:GLU:HG3	15:AD:246:MET:HE2	1.96	0.47
19:AG:48:ALA:HB3	19:AG:220:VAL:HG12	1.97	0.47
19:AG:144:ASP:HB3	19:AG:147:GLN:HB2	1.96	0.47
20:AH:69:THR:HG22	20:AH:70:LYS:H	1.80	0.47
25:AM:214:SER:HA	25:AM:226:ILE:HA	1.96	0.47
31:AS:185:ARG:NH1	27:BO:26:VAL:O	2.47	0.47
31:AS:185:ARG:HH22	28:BP:147:TYR:HE1	1.49	0.47
1:BU:19:LEU:HB2	10:Bd:27:LYS:HZ2	1.80	0.47
1:BU:185:MET:HE1	1:BU:191:LYS:HE3	1.97	0.47
1:BU:427:LEU:HD23	1:BU:429:LYS:NZ	2.29	0.47
3:BW:56:THR:HG21	3:BW:103:LYS:HG2	1.97	0.47
3:BW:86:ASN:HD22	3:BW:88:MET:HE2	1.80	0.47
4:BX:194:ARG:C	18:BC:385:MET:SD	2.98	0.47
5:BY:177:ARG:NH2	18:BC:337:ASN:OD1	2.45	0.47
6:BZ:228:TYR:O	6:BZ:231:GLN:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:94:GLN:O	13:BA:96:ALA:N	2.48	0.47
13:BA:351:ARG:HB2	13:BA:374:ALA:HB1	1.97	0.47
14:BB:175:LYS:NZ	14:BB:247:PHE:O	2.48	0.47
15:BD:249:ASP:O	15:BD:253:LEU:HG	2.15	0.47
17:BF:87:PRO:HB2	17:BF:152:GLY:HA3	1.96	0.47
18:BC:161:ILE:HD13	18:BC:186:VAL:HG21	1.97	0.47
19:BG:60:LEU:HD13	25:BM:162:GLY:O	2.15	0.47
22:BJ:98:VAL:HG22	30:BR:78:ALA:HB1	1.96	0.47
22:BJ:120:GLN:HA	23:BK:135:ARG:HE	1.80	0.47
25:BM:56:LYS:H	25:BM:57:LEU:HA	1.79	0.47
29:BQ:3:TYR:CE2	29:BQ:5:ILE:HA	2.50	0.47
31:BS:2:PHE:CG	32:BT:105:PRO:HG3	2.49	0.47
1:AU:350:LEU:HD12	1:AU:353:LEU:HD12	1.96	0.47
1:AU:766:PHE:HD1	1:AU:776:SER:HA	1.80	0.47
6:AZ:239:ASP:N	6:AZ:239:ASP:OD1	2.48	0.47
12:Af:566:HIS:HB2	12:Af:569:LYS:HB2	1.97	0.47
12:Af:675:PHE:HE1	12:Af:693:ALA:HB3	1.80	0.47
12:Af:687:ARG:HA	12:Af:690:VAL:CG2	2.45	0.47
13:AA:351:ARG:HB2	13:AA:374:ALA:HB1	1.97	0.47
15:AD:117:SER:CB	18:AC:59:LEU:HD12	2.45	0.47
15:AD:283:ARG:HH11	18:AC:222:LYS:HB2	1.80	0.47
15:AD:352:MET:HE1	15:AD:380:GLN:HA	1.97	0.47
16:AE:131:SER:HA	16:AE:134:GLU:HB2	1.97	0.47
17:AF:92:ASN:HA	17:AF:149:ASP:HA	1.95	0.47
19:AG:73:THR:HG22	19:AG:74:GLU:H	1.79	0.47
19:AG:120:ASP:OD1	20:AH:84:ARG:NH1	2.47	0.47
20:AH:181:ASP:N	20:AH:181:ASP:OD1	2.47	0.47
24:AL:157:ARG:HH21	25:AM:56:LYS:HD2	1.79	0.47
24:AL:168:ALA:O	24:AL:172:LEU:HG	2.15	0.47
27:AO:14:LEU:HB2	27:AO:176:CYS:HB3	1.96	0.47
28:AP:27:ARG:HB2	28:AP:183:MET:HB2	1.97	0.47
29:AQ:3:TYR:CE2	29:AQ:5:ILE:HA	2.50	0.47
6:BZ:144:VAL:HG12	6:BZ:145:HIS:N	2.30	0.47
6:BZ:222:ILE:CG2	6:BZ:223:ASN:HB3	2.33	0.47
8:Bb:146:GLU:HG2	8:Bb:147:GLU:H	1.80	0.47
9:Bc:151:VAL:HG13	9:Bc:152:LYS:N	2.25	0.47
10:Bd:226:ALA:HA	10:Bd:227:SER:HA	1.66	0.47
12:Bf:772:GLY:HA2	12:Bf:815:HIS:HA	1.96	0.47
13:BA:390:THR:HA	14:BB:216:ILE:HG23	1.97	0.47
16:BE:131:SER:HA	16:BE:134:GLU:HB2	1.97	0.47
17:BF:97:LEU:HA	17:BF:120:LYS:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BF:233:LYS:N	34:BF:501:ATP:O2B	2.47	0.47
23:BK:10:ARG:O	23:BK:12:VAL:N	2.47	0.47
26:BN:52:THR:HG22	26:BN:98:ILE:HD11	1.96	0.47
28:BP:58:THR:O	29:BQ:85:ARG:NH2	2.48	0.47
32:BT:19:GLY:HA3	32:BT:193:THR:HG22	1.96	0.47
6:AZ:190:ARG:NH2	7:Aa:375:LEU:HB2	2.30	0.46
10:Ad:190:LEU:HD23	10:Ad:191:PHE:H	1.79	0.46
12:Af:339:ILE:HG13	12:Af:340:MET:N	2.30	0.46
12:Af:762:VAL:O	12:Af:766:GLN:HG2	2.14	0.46
14:AB:167:THR:OG1	14:AB:168:ASP:N	2.49	0.46
15:AD:233:SER:HB2	16:AE:255:ARG:HG2	1.96	0.46
16:AE:75:ASN:C	16:AE:77:PRO:HD2	2.40	0.46
18:AC:88:LYS:HD2	18:AC:94:LYS:HE3	1.97	0.46
18:AC:100:ASP:CG	18:AC:122:THR:HB	2.39	0.46
24:AL:148:CYS:SG	24:AL:150:SER:OG	2.62	0.46
25:AM:56:LYS:H	25:AM:57:LEU:HA	1.79	0.46
25:AM:137:LEU:HA	25:AM:137:LEU:HD23	1.80	0.46
27:AO:52:THR:O	27:AO:56:THR:HG22	2.15	0.46
3:BW:175:GLY:HA2	16:BE:161:ARG:NE	2.30	0.46
5:BY:286:TRP:C	5:BY:288:PHE:H	2.23	0.46
12:Bf:687:ARG:HA	12:Bf:690:VAL:CG2	2.45	0.46
12:Bf:696:LEU:HD21	12:Bf:833:PHE:CZ	2.50	0.46
13:BA:277:ILE:HD12	13:BA:319:MET:SD	2.55	0.46
13:BA:312:ARG:HA	13:BA:313:GLY:HA2	1.43	0.46
14:BB:346:ARG:HG3	14:BB:349:ARG:H	1.80	0.46
15:BD:81:ARG:NE	15:BD:82:ILE:CD1	2.76	0.46
16:BE:214:LEU:O	16:BE:218:MET:CB	2.63	0.46
17:BF:137:ILE:HG21	17:BF:160:ILE:H	1.80	0.46
17:BF:288:LEU:O	17:BF:292:GLY:N	2.48	0.46
17:BF:376:SER:O	17:BF:378:ASP:N	2.39	0.46
19:BG:144:ASP:HB3	19:BG:147:GLN:HB2	1.96	0.46
21:BI:178:ASP:HB3	21:BI:192:LEU:HD11	1.97	0.46
22:BJ:176:TYR:OH	23:BK:58:LEU:HD23	2.15	0.46
1:AU:493:VAL:HG21	1:AU:519:VAL:HG11	1.96	0.46
3:AW:100:ALA:O	3:AW:104:MET:HG2	2.14	0.46
9:Ac:59:GLY:HA2	9:Ac:70:ILE:HG22	1.97	0.46
12:Af:592:ASN:O	12:Af:596:ASP:CB	2.62	0.46
12:Af:611:GLN:O	12:Af:615:ILE:HG22	2.15	0.46
13:AA:395:PHE:CD1	13:AA:398:ARG:HD3	2.50	0.46
14:AB:106:PRO:HB3	18:AC:121:TYR:HB2	1.96	0.46
14:AB:190:LEU:HB2	14:AB:193:GLN:HB3	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AD:105:SER:OG	15:AD:107:THR:OG1	2.30	0.46
15:AD:258:ALA:HA	15:AD:259:PRO:C	2.40	0.46
16:AE:317:ALA:O	16:AE:322:LYS:NZ	2.38	0.46
17:AF:87:PRO:HB2	17:AF:152:GLY:HA3	1.96	0.46
17:AF:97:LEU:HA	17:AF:120:LYS:HG3	1.96	0.46
26:AN:46:SER:HB2	26:AN:97:GLY:HA3	1.97	0.46
2:BV:194:LYS:O	2:BV:242:HIS:NE2	2.32	0.46
5:BY:138:LEU:HD22	5:BY:168:ILE:HD11	1.96	0.46
12:Bf:560:LEU:O	12:Bf:564:LEU:HD13	2.15	0.46
12:Bf:812:GLY:O	12:Bf:815:HIS:NE2	2.49	0.46
15:BD:160:PRO:HG3	15:BD:220:ALA:HB3	1.96	0.46
15:BD:389:GLU:HB3	15:BD:390:ASN:C	2.39	0.46
15:BD:389:GLU:HB3	15:BD:390:ASN:HB2	1.98	0.46
16:BE:138:LEU:HD21	16:BE:140:GLU:HG2	1.96	0.46
17:BF:202:ILE:HG13	17:BF:203:VAL:HG23	1.97	0.46
18:BC:299:ASP:O	18:BC:303:SER:OG	2.28	0.46
20:BH:108:ALA:O	20:BH:112:GLN:HG2	2.15	0.46
20:BH:222:THR:OG1	20:BH:225:GLU:OE1	2.30	0.46
2:AV:482:PHE:O	2:AV:486:ILE:HG13	2.15	0.46
3:AW:440:ASN:HB3	6:AZ:230:LEU:HD11	1.97	0.46
5:AY:286:TRP:C	5:AY:288:PHE:H	2.23	0.46
8:Ab:120:ASN:OD1	8:Ab:121:GLU:N	2.47	0.46
9:Ac:299:CYS:SG	9:Ac:300:LEU:N	2.88	0.46
12:Af:772:GLY:HA2	12:Af:815:HIS:HA	1.97	0.46
13:AA:218:PRO:HD2	13:AA:428:ARG:HG3	1.98	0.46
13:AA:426:THR:O	13:AA:429:TYR:OH	2.26	0.46
14:AB:150:VAL:HG12	14:AB:162:VAL:HG12	1.97	0.46
15:AD:115:ILE:HG22	15:AD:139:LEU:HD12	1.98	0.46
15:AD:160:PRO:HG3	15:AD:220:ALA:HB3	1.96	0.46
15:AD:253:LEU:HA	15:AD:256:GLU:HB3	1.96	0.46
17:AF:171:ARG:HH12	17:AF:267:LEU:HD21	1.81	0.46
23:AK:69:GLU:HB2	23:AK:228:MET:HE2	1.96	0.46
26:AN:127:ILE:HD12	26:AN:136:TYR:CD1	2.49	0.46
28:AP:147:TYR:HE1	31:BS:185:ARG:HH12	1.59	0.46
32:AT:89:HIS:CE1	32:AT:131:ALA:HB1	2.50	0.46
1:BU:19:LEU:HB2	10:Bd:27:LYS:NZ	2.30	0.46
1:BU:331:GLY:O	1:BU:335:ILE:HG12	2.15	0.46
1:BU:567:ILE:HD13	1:BU:570:LEU:HD12	1.96	0.46
2:BV:259:LEU:HD11	2:BV:294:ARG:HD2	1.97	0.46
5:BY:174:TRP:HB2	18:BC:336:MET:O	2.16	0.46
8:Bb:18:ASN:HD21	8:Bb:25:ARG:NH2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bb:87:CYS:SG	8:Bb:127:LEU:HD11	2.55	0.46
9:Bc:299:CYS:SG	9:Bc:300:LEU:N	2.88	0.46
10:Bd:190:LEU:HD23	10:Bd:191:PHE:H	1.79	0.46
12:Bf:512:MET:HE1	12:Bf:520:LEU:HB2	1.97	0.46
20:BH:67:PRO:HB3	20:BH:218:PHE:CE2	2.50	0.46
23:BK:69:GLU:HB2	23:BK:228:MET:HE2	1.96	0.46
25:BM:215:TRP:HH2	25:BM:219:LEU:H	1.63	0.46
28:BP:27:ARG:HB2	28:BP:183:MET:HB2	1.97	0.46
32:BT:126:ASP:HB3	32:BT:130:VAL:H	1.79	0.46
1:AU:19:LEU:HB2	10:Ad:27:LYS:NZ	2.30	0.46
1:AU:521:LEU:HB2	1:AU:554:LEU:CD2	2.46	0.46
2:AV:296:LYS:HZ1	2:AV:308:THR:HG21	1.81	0.46
3:AW:32:ALA:O	3:AW:36:LYS:HG3	2.15	0.46
5:AY:173:ASP:HA	18:AC:335:LYS:HA	1.97	0.46
8:Ab:146:GLU:HG2	8:Ab:147:GLU:H	1.80	0.46
12:Af:397:LYS:NZ	12:Af:408:LEU:HD21	2.30	0.46
13:AA:390:THR:HA	14:AB:216:ILE:HG23	1.97	0.46
14:AB:209:GLU:HG2	14:AB:210:TYR:N	2.30	0.46
14:AB:428:TYR:O	14:AB:432:GLU:N	2.46	0.46
15:AD:249:ASP:O	15:AD:253:LEU:HG	2.15	0.46
16:AE:140:GLU:HA	16:AE:143:ARG:HD3	1.97	0.46
16:AE:214:LEU:O	16:AE:218:MET:CB	2.63	0.46
17:AF:383:GLU:HB2	24:AL:170:THR:HG21	1.97	0.46
18:AC:158:ILE:HG13	18:AC:162:LYS:HZ1	1.79	0.46
22:AJ:85:ASN:HB3	29:AQ:70:ARG:HH12	1.80	0.46
22:AJ:176:TYR:OH	23:AK:58:LEU:HD23	2.15	0.46
24:AL:66:VAL:HG11	24:AL:88:MET:HG3	1.97	0.46
25:AM:99:ARG:HD3	25:AM:103:GLY:HA2	1.98	0.46
30:AR:166:ARG:HG2	29:BQ:140:LEU:HD22	1.96	0.46
1:BU:611:ASN:HB3	1:BU:614:VAL:CG1	2.44	0.46
2:BV:80:LYS:HE2	2:BV:86:VAL:HB	1.98	0.46
3:BW:240:TYR:CD1	3:BW:276:LEU:HB3	2.50	0.46
4:BX:203:PRO:HB2	4:BX:204:PRO:C	2.41	0.46
4:BX:327:TYR:O	4:BX:331:LEU:HD13	2.16	0.46
6:BZ:12:HIS:ND1	6:BZ:168:GLU:OE1	2.49	0.46
12:Bf:401:LYS:O	12:Bf:403:LYS:N	2.48	0.46
13:BA:420:TYR:HE1	14:BB:350:LYS:HG2	1.81	0.46
15:BD:154:LEU:O	15:BD:155:THR:OG1	2.24	0.46
15:BD:342:ARG:HG3	15:BD:364:VAL:HG21	1.97	0.46
18:BC:246:ILE:O	18:BC:291:VAL:HA	2.16	0.46
21:BI:220:ASN:HA	21:BI:221:GLY:HA2	1.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:436:ALA:O	1:AU:472:ILE:HD13	2.16	0.46
1:AU:630:PRO:HA	1:AU:659:CYS:SG	2.55	0.46
2:AV:80:LYS:HE2	2:AV:86:VAL:HB	1.98	0.46
5:AY:307:LEU:HD22	5:AY:308:LEU:HD22	1.98	0.46
7:Aa:320:VAL:HG22	7:Aa:322:GLY:H	1.81	0.46
12:Af:369:ARG:NH1	12:Af:371:ASN:HD22	2.13	0.46
12:Af:440:ILE:HG13	12:Af:441:LYS:N	2.30	0.46
12:Af:721:VAL:O	12:Af:725:SER:CB	2.64	0.46
12:Af:839:PRO:HG2	12:Af:850:VAL:HG21	1.96	0.46
16:AE:247:THR:OG1	16:AE:248:SER:N	2.48	0.46
17:AF:321:GLN:O	17:AF:324:THR:HG23	2.15	0.46
19:AG:113:MET:SD	27:AO:70:THR:HG22	2.56	0.46
20:AH:67:PRO:HB3	20:AH:218:PHE:CE2	2.50	0.46
22:AJ:51:ALA:C	22:AJ:53:LEU:H	2.22	0.46
26:AN:166:ARG:NH2	26:BN:140:ASP:CG	2.69	0.46
32:AT:45:VAL:HG13	32:AT:71:VAL:HG21	1.98	0.46
32:AT:144:TYR:CB	27:BO:132:LEU:HD13	2.45	0.46
1:BU:243:LEU:HD21	1:BU:913:ILE:HD13	1.98	0.46
12:Bf:509:LYS:HA	12:Bf:515:ALA:HB3	1.96	0.46
12:Bf:566:HIS:HB2	12:Bf:569:LYS:HB2	1.97	0.46
12:Bf:721:VAL:O	12:Bf:725:SER:CB	2.64	0.46
14:BB:418:ASP:O	14:BB:422:SER:CB	2.64	0.46
15:BD:242:GLU:HG3	15:BD:246:MET:HE2	1.96	0.46
17:BF:321:GLN:O	17:BF:324:THR:HG23	2.15	0.46
19:BG:39:SER:H	19:BG:172:GLN:NE2	2.14	0.46
20:BH:139:TRP:HA	20:BH:144:PRO:HA	1.97	0.46
25:BM:185:THR:O	25:BM:189:ILE:HG12	2.16	0.46
32:BT:199:ILE:HG22	32:BT:200:GLU:H	1.81	0.46
3:AW:171:VAL:CG1	15:AD:392:TYR:OH	2.62	0.46
4:AX:410:VAL:O	4:AX:413:SER:OG	2.30	0.46
12:Af:211:ILE:O	12:Af:215:ASP:CB	2.62	0.46
12:Af:369:ARG:CZ	12:Af:371:ASN:HD22	2.29	0.46
13:AA:123:VAL:HG11	13:AA:147:TYR:O	2.14	0.46
14:AB:100:ASP:O	14:AB:104:GLY:N	2.49	0.46
14:AB:187:ILE:HG21	14:AB:236:ALA:HB1	1.96	0.46
14:AB:294:ARG:HD3	18:AC:261:GLY:HA2	1.97	0.46
15:AD:132:LEU:HD21	15:AD:139:LEU:HD23	1.98	0.46
16:AE:61:LEU:HD11	16:AE:72:LYS:HB2	1.96	0.46
16:AE:178:THR:OG1	34:AE:401:ATP:O2B	2.33	0.46
18:AC:254:ILE:HA	18:AC:257:SER:HB3	1.98	0.46
18:AC:255:GLY:N	18:AC:256:SER:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AJ:70:CYS:O	22:AJ:71:MET:HE2	2.16	0.46
1:BU:9:ILE:HD11	1:BU:37:GLU:HG3	1.98	0.46
1:BU:436:ALA:O	1:BU:472:ILE:HD13	2.16	0.46
1:BU:521:LEU:HB2	1:BU:554:LEU:CD2	2.46	0.46
2:BV:62:HIS:HA	2:BV:65:ARG:HB3	1.98	0.46
2:BV:80:LYS:HA	2:BV:80:LYS:HD3	1.61	0.46
3:BW:372:ARG:HG2	3:BW:414:ASN:HB3	1.98	0.46
5:BY:183:TYR:OH	5:BY:212:GLU:HB2	2.15	0.46
7:Ba:70:ARG:HG2	8:Bb:17:ARG:HB3	1.98	0.46
7:Ba:214:GLY:O	7:Ba:241:ASN:ND2	2.48	0.46
8:Bb:12:ASN:OD1	8:Bb:12:ASN:N	2.48	0.46
10:Bd:233:GLU:HB3	10:Bd:235:THR:HG23	1.97	0.46
12:Bf:242:GLU:HB3	12:Bf:243:PRO:HD3	1.97	0.46
13:BA:100:LYS:NZ	13:BA:141:GLY:O	2.49	0.46
14:BB:106:PRO:HB3	18:BC:121:TYR:HB2	1.96	0.46
15:BD:154:LEU:C	15:BD:156:SER:H	2.24	0.46
15:BD:374:ASP:OD1	15:BD:377:SER:HB2	2.16	0.46
17:BF:436:GLN:C	17:BF:438:TYR:H	2.24	0.46
19:BG:48:ALA:HB3	19:BG:220:VAL:HG12	1.97	0.46
22:BJ:70:CYS:O	22:BJ:71:MET:HE2	2.16	0.46
26:BN:175:ARG:HG2	26:BN:188:VAL:HG22	1.98	0.46
27:BO:52:THR:O	27:BO:56:THR:HG22	2.15	0.46
29:BQ:4:LEU:HB3	29:BQ:16:ALA:O	2.15	0.46
1:AU:474:ARG:NH2	1:AU:500:ASN:HB2	2.25	0.46
2:AV:137:GLU:HA	2:AV:140:ASP:HB2	1.98	0.46
3:AW:56:THR:HG21	3:AW:103:LYS:HG2	1.97	0.46
9:Ac:29:GLU:HB2	9:Ac:203:ILE:HG13	1.97	0.46
10:Ad:35:PHE:HD2	10:Ad:36:LEU:HD23	1.80	0.46
12:Af:393:ASP:HA	12:Af:396:ASN:HB2	1.98	0.46
12:Af:529:SER:CB	12:Af:531:ASN:HD22	2.28	0.46
12:Af:550:LEU:CD1	12:Af:551:LYS:H	2.18	0.46
13:AA:92:PRO:C	13:AA:93:LEU:CD1	2.86	0.46
15:AD:170:MET:C	15:AD:172:ILE:H	2.22	0.46
15:AD:335:LEU:HD11	15:AD:372:GLY:HA2	1.98	0.46
15:AD:353:ASN:O	15:AD:394:VAL:HG12	2.15	0.46
15:AD:384:MET:CA	15:AD:387:VAL:HG12	2.43	0.46
17:AF:202:ILE:HG13	17:AF:203:VAL:HG23	1.97	0.46
17:AF:436:GLN:C	17:AF:438:TYR:H	2.24	0.46
2:BV:210:CYS:SG	2:BV:211:TYR:N	2.89	0.46
3:BW:440:ASN:O	3:BW:443:THR:OG1	2.18	0.46
7:Ba:32:LYS:HB2	8:Bb:20:ASP:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:342:ASP:H	7:Ba:345:GLN:HB2	1.81	0.46
10:Bd:44:THR:O	10:Bd:47:GLN:NE2	2.49	0.46
12:Bf:369:ARG:CZ	12:Bf:371:ASN:HD22	2.29	0.46
12:Bf:486:GLY:HA3	12:Bf:525:ILE:HD13	1.98	0.46
12:Bf:549:GLU:HB3	12:Bf:550:LEU:HA	1.97	0.46
12:Bf:595:VAL:HG11	12:Bf:834:ASP:HA	1.97	0.46
13:BA:108:ASP:HB2	13:BA:109:PRO:HD3	1.98	0.46
13:BA:411:GLU:HA	13:BA:414:ASN:HD21	1.81	0.46
16:BE:178:THR:HG22	16:BE:339:ASN:HB3	1.98	0.46
17:BF:94:ILE:HA	17:BF:147:PRO:HB3	1.98	0.46
18:BC:189:TYR:CE2	18:BC:316:GLU:HA	2.51	0.46
20:BH:118:MET:HE3	20:BH:130:PHE:HB2	1.97	0.46
23:BK:67:ILE:HG12	23:BK:218:ALA:HB2	1.98	0.46
26:BN:115:PRO:HD2	26:BN:119:MET:O	2.15	0.46
26:BN:173:VAL:HG22	26:BN:174:ILE:H	1.79	0.46
27:BO:17:ASP:O	27:BO:33:LYS:NZ	2.36	0.46
27:BO:51:ASP:HB3	27:BO:94:ILE:HG23	1.97	0.46
4:AX:327:TYR:O	4:AX:331:LEU:HD13	2.16	0.46
7:Aa:342:ASP:H	7:Aa:345:GLN:HB2	1.81	0.46
12:Af:547:GLU:O	12:Af:550:LEU:HB3	2.16	0.46
12:Af:574:GLU:HA	12:Af:600:TYR:CZ	2.51	0.46
12:Af:687:ARG:HA	12:Af:690:VAL:HG23	1.98	0.46
13:AA:411:GLU:HA	13:AA:414:ASN:HD21	1.81	0.46
14:AB:173:VAL:HA	18:AC:232:ARG:HG2	1.98	0.46
15:AD:147:ALA:HB1	16:AE:70:ILE:HD13	1.98	0.46
16:AE:138:LEU:HD21	16:AE:140:GLU:HG2	1.96	0.46
16:AE:178:THR:HG22	16:AE:339:ASN:HB3	1.98	0.46
16:AE:367:PHE:O	16:AE:371:VAL:CB	2.41	0.46
17:AF:85:THR:HA	17:AF:86:LEU:HA	1.69	0.46
17:AF:288:LEU:O	17:AF:292:GLY:N	2.48	0.46
19:AG:39:SER:H	19:AG:172:GLN:NE2	2.14	0.46
19:AG:131:MET:HB2	19:AG:131:MET:HE3	1.75	0.46
19:AG:184:LYS:HA	19:AG:185:LYS:C	2.41	0.46
20:AH:222:THR:OG1	20:AH:225:GLU:OE1	2.30	0.46
25:AM:122:TYR:CD1	25:AM:128:VAL:HG21	2.48	0.46
26:AN:175:ARG:HG2	26:AN:188:VAL:HG22	1.98	0.46
27:AO:195:LYS:HG2	31:BS:180:ILE:CG2	2.40	0.46
28:AP:152:SER:HB3	31:BS:148:LEU:CD2	2.45	0.46
29:AQ:4:LEU:HB3	29:AQ:16:ALA:O	2.15	0.46
32:AT:179:ARG:HD2	27:BO:135:MET:HG2	1.98	0.46
1:BU:168:LEU:HD13	1:BU:204:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BZ:164:ALA:HB3	6:BZ:169:GLU:HG3	1.97	0.46
11:Be:62:LYS:O	11:Be:66:LYS:HG3	2.16	0.46
12:Bf:271:MET:HE2	12:Bf:273:ASN:ND2	2.31	0.46
12:Bf:339:ILE:HG13	12:Bf:340:MET:N	2.30	0.46
12:Bf:611:GLN:O	12:Bf:615:ILE:HG22	2.15	0.46
12:Bf:744:MET:HG2	12:Bf:748:LEU:HD11	1.96	0.46
13:BA:218:PRO:HD2	13:BA:428:ARG:HG3	1.98	0.46
14:BB:100:ASP:O	14:BB:104:GLY:N	2.49	0.46
14:BB:364:ILE:HG21	14:BB:392:GLY:HA2	1.97	0.46
15:BD:212:LYS:HD3	34:BD:501:ATP:O1G	2.15	0.46
20:BH:68:ILE:HA	20:BH:91:ARG:HE	1.80	0.46
25:BM:99:ARG:HD3	25:BM:103:GLY:HA2	1.98	0.46
29:BQ:7:ILE:HB	29:BQ:14:LEU:HD23	1.97	0.46
32:BT:49:THR:HB	32:BT:85:PRO:HG3	1.98	0.46
1:AU:331:GLY:O	1:AU:335:ILE:HG12	2.15	0.46
2:AV:210:CYS:SG	2:AV:211:TYR:N	2.89	0.46
2:AV:467:TYR:HB3	2:AV:468:SER:H	1.58	0.46
3:AW:370:TYR:HA	3:AW:371:THR:CB	2.46	0.46
5:AY:19:ILE:O	5:AY:23:ARG:HG2	2.16	0.46
5:AY:174:TRP:HB2	18:AC:336:MET:O	2.16	0.46
6:AZ:12:HIS:ND1	6:AZ:168:GLU:OE1	2.49	0.46
10:Ad:155:LYS:HA	10:Ad:158:ILE:HD11	1.98	0.46
12:Af:242:GLU:HB3	12:Af:243:PRO:HD3	1.97	0.46
12:Af:512:MET:HE1	12:Af:520:LEU:HB2	1.97	0.46
12:Af:680:ARG:NH2	13:AA:74:PRO:HG2	2.31	0.46
13:AA:229:VAL:HG22	13:AA:237:PHE:CZ	2.31	0.46
14:AB:387:LYS:HE3	14:AB:395:ILE:HD12	1.97	0.46
15:AD:154:LEU:C	15:AD:156:SER:H	2.24	0.46
18:AC:197:THR:HB	35:AC:501:ADP:PA	2.56	0.46
20:AH:68:ILE:HA	20:AH:91:ARG:HE	1.80	0.46
27:AO:26:VAL:O	31:BS:185:ARG:NH1	2.48	0.46
27:AO:195:LYS:CE	31:BS:181:SER:N	2.76	0.46
31:AS:159:GLN:HE22	27:BO:210:ALA:CB	2.26	0.46
32:AT:45:VAL:HB	32:AT:49:THR:HG23	1.98	0.46
5:BY:19:ILE:O	5:BY:23:ARG:HG2	2.16	0.46
5:BY:307:LEU:HD22	5:BY:308:LEU:HD22	1.98	0.46
6:BZ:239:ASP:OD1	6:BZ:239:ASP:N	2.48	0.46
7:Ba:320:VAL:HG22	7:Ba:322:GLY:H	1.81	0.46
7:Ba:335:TRP:CG	7:Ba:336:VAL:H	2.34	0.46
8:Bb:120:ASN:OD1	8:Bb:121:GLU:N	2.47	0.46
10:Bd:58:GLY:O	10:Bd:62:SER:OG	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bd:155:LYS:HA	10:Bd:158:ILE:HD11	1.97	0.46
12:Bf:397:LYS:NZ	12:Bf:408:LEU:HD21	2.30	0.46
12:Bf:529:SER:CB	12:Bf:531:ASN:HD22	2.28	0.46
12:Bf:675:PHE:HE1	12:Bf:693:ALA:HB3	1.80	0.46
12:Bf:801:VAL:O	12:Bf:804:LEU:HG	2.15	0.46
13:BA:189:GLU:O	13:BA:194:PRO:HD3	2.15	0.46
14:BB:211:TYR:CE1	14:BB:217:LYS:HA	2.50	0.46
17:BF:137:ILE:HD13	17:BF:160:ILE:HB	1.97	0.46
17:BF:344:ARG:NH1	17:BF:346:GLY:HA3	2.31	0.46
17:BF:383:GLU:HB2	24:BL:170:THR:HG21	1.97	0.46
18:BC:78:ARG:HA	18:BC:110:PRO:HG3	1.98	0.46
19:BG:116:LYS:HG2	19:BG:160:TYR:CZ	2.50	0.46
22:BJ:37:GLY:O	22:BJ:142:PRO:HB3	2.15	0.46
24:BL:101:ARG:HG3	24:BL:102:PRO:O	2.16	0.46
3:AW:372:ARG:HG2	3:AW:414:ASN:HB3	1.98	0.46
6:AZ:102:HIS:HD2	6:AZ:104:ASN:HB3	1.81	0.46
6:AZ:208:ILE:HA	6:AZ:211:TYR:CD2	2.51	0.46
12:Af:696:LEU:HD21	12:Af:833:PHE:CZ	2.50	0.46
13:AA:225:CYS:O	13:AA:229:VAL:HG23	2.16	0.46
13:AA:311:PRO:HD2	13:AA:313:GLY:HA2	1.98	0.46
14:AB:211:TYR:CE1	14:AB:217:LYS:HA	2.51	0.46
15:AD:146:GLU:HG3	15:AD:252:ARG:HG3	1.97	0.46
15:AD:353:ASN:CG	15:AD:393:ILE:HG12	2.41	0.46
17:AF:255:GLN:O	17:AF:258:GLN:NE2	2.49	0.46
17:AF:336:ASP:N	17:AF:336:ASP:OD1	2.47	0.46
18:AC:161:ILE:HD13	18:AC:186:VAL:HG21	1.97	0.46
18:AC:246:ILE:O	18:AC:291:VAL:HA	2.16	0.46
20:AH:111:VAL:O	20:AH:115:ALA:CB	2.65	0.46
21:AI:178:ASP:HB3	21:AI:192:LEU:HD11	1.97	0.46
28:AP:34:MET:CB	30:BR:166:ARG:O	2.56	0.46
28:AP:164:PHE:CE1	28:AP:198:ARG:HD2	2.51	0.46
1:BU:792:ASN:OD1	1:BU:793:LYS:N	2.44	0.46
2:BV:443:ARG:NH2	10:Bd:180:GLY:O	2.49	0.46
2:BV:482:PHE:O	2:BV:486:ILE:HG13	2.15	0.46
5:BY:377:LEU:HA	5:BY:380:VAL:HG22	1.98	0.46
7:Ba:206:LEU:HB3	7:Ba:264:ASN:OD1	2.16	0.46
7:Ba:268:LEU:HD23	7:Ba:271:LYS:HD3	1.98	0.46
12:Bf:440:ILE:HG13	12:Bf:441:LYS:N	2.30	0.46
12:Bf:547:GLU:O	12:Bf:550:LEU:HB3	2.16	0.46
14:BB:230:THR:HG21	14:BB:353:PHE:CE2	2.50	0.46
14:BB:365:PHE:HB2	14:BB:395:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BC:175:PHE:HD1	18:BC:180:ILE:HG23	1.82	0.46
19:BG:184:LYS:HA	19:BG:185:LYS:C	2.41	0.46
21:BI:73:ALA:HB3	21:BI:137:ILE:HD11	1.98	0.46
23:BK:39:GLY:HA2	23:BK:48:LEU:HA	1.97	0.46
25:BM:214:SER:HA	25:BM:226:ILE:HA	1.96	0.46
28:BP:164:PHE:CE1	28:BP:198:ARG:HD2	2.51	0.46
3:AW:80:TRP:CD1	3:AW:84:ASN:HD21	2.34	0.45
3:AW:86:ASN:HD22	3:AW:88:MET:HE2	1.80	0.45
4:AX:297:ARG:HB2	4:AX:337:ARG:NH1	2.31	0.45
4:AX:343:SER:HB2	4:AX:387:ILE:HB	1.98	0.45
6:AZ:176:LEU:HD12	6:AZ:178:ASP:H	1.81	0.45
6:AZ:190:ARG:HG3	6:AZ:191:ILE:HD12	1.98	0.45
6:AZ:205:LEU:HA	6:AZ:208:ILE:HG22	1.98	0.45
7:Aa:144:ASN:HA	7:Aa:145:LEU:HA	1.58	0.45
7:Aa:219:HIS:ND1	7:Aa:221:VAL:HG22	2.30	0.45
12:Af:170:TRP:HB3	12:Af:171:GLN:HB3	1.98	0.45
12:Af:640:LYS:NZ	12:Af:664:GLU:OE1	2.29	0.45
13:AA:100:LYS:NZ	13:AA:141:GLY:O	2.49	0.45
13:AA:220:THR:HB	34:AA:501:ATP:N7	2.31	0.45
18:AC:215:SER:HA	18:AC:216:GLY:HA3	1.48	0.45
19:AG:15:ILE:HD12	20:AH:21:GLN:NE2	2.31	0.45
21:AI:18:LEU:O	21:AI:22:GLU:HG2	2.16	0.45
21:AI:73:ALA:HB3	21:AI:137:ILE:HD11	1.98	0.45
24:AL:146:GLN:HE22	24:AL:159:MET:HE2	1.81	0.45
31:AS:159:GLN:HG2	27:BO:207:GLY:C	2.40	0.45
32:AT:9:THR:O	32:AT:41:ARG:NH2	2.49	0.45
1:BU:699:THR:HG21	1:BU:812:ALA:O	2.16	0.45
3:BW:370:TYR:HA	3:BW:371:THR:CB	2.46	0.45
3:BW:408:ARG:HD2	4:BX:346:GLN:NE2	2.29	0.45
4:BX:258:LYS:HE3	4:BX:270:LEU:HD11	1.99	0.45
5:BY:39:ASP:OD1	5:BY:39:ASP:N	2.49	0.45
7:Ba:219:HIS:ND1	7:Ba:221:VAL:HG22	2.30	0.45
12:Bf:393:ASP:O	12:Bf:397:LYS:N	2.48	0.45
13:BA:228:ALA:O	13:BA:232:ARG:HB2	2.17	0.45
13:BA:395:PHE:CD1	13:BA:398:ARG:HD3	2.50	0.45
15:BD:115:ILE:HG22	15:BD:139:LEU:HD12	1.98	0.45
16:BE:208:ILE:C	16:BE:210:GLU:H	2.22	0.45
16:BE:210:GLU:HB2	16:BE:213:ARG:HG2	1.98	0.45
18:BC:197:THR:HB	35:BC:501:ADP:PA	2.56	0.45
18:BC:264:GLY:HA2	18:BC:267:SER:HB3	1.97	0.45
19:BG:58:ASP:OD1	19:BG:59:LYS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BI:76:VAL:HA	21:BI:134:LEU:HB3	1.98	0.45
22:BJ:186:LEU:O	22:BJ:190:LEU:CB	2.63	0.45
26:BN:46:SER:HB2	26:BN:97:GLY:HA3	1.97	0.45
1:AU:632:GLN:O	1:AU:636:VAL:HG22	2.16	0.45
3:AW:175:GLY:HA2	16:AE:161:ARG:NE	2.30	0.45
5:AY:232:GLU:O	5:AY:236:LEU:N	2.43	0.45
5:AY:367:GLN:OE1	5:AY:371:LYS:HE2	2.16	0.45
5:AY:377:LEU:HA	5:AY:380:VAL:HG22	1.98	0.45
6:AZ:59:ASP:OD2	8:Ab:99:HIS:NE2	2.46	0.45
12:Af:486:GLY:HA3	12:Af:525:ILE:HD13	1.98	0.45
12:Af:595:VAL:HG11	12:Af:834:ASP:HA	1.97	0.45
12:Af:609:VAL:HB	12:Af:631:LYS:HZ1	1.81	0.45
13:AA:102:ILE:HA	13:AA:113:ILE:HA	1.97	0.45
14:AB:364:ILE:HG21	14:AB:392:GLY:HA2	1.97	0.45
15:AD:267:ILE:O	15:AD:270:ILE:N	2.47	0.45
15:AD:389:GLU:HB3	15:AD:390:ASN:HB2	1.98	0.45
16:AE:193:CYS:SG	16:AE:227:PRO:HG2	2.56	0.45
16:AE:210:GLU:HB2	16:AE:213:ARG:HG2	1.98	0.45
16:AE:214:LEU:O	16:AE:218:MET:HB2	2.16	0.45
17:AF:298:SER:HB3	17:AF:299:GLU:HG2	1.97	0.45
17:AF:320:PHE:HB3	17:AF:322:PRO:HD2	1.97	0.45
19:AG:196:GLU:O	19:AG:200:THR:HG23	2.17	0.45
20:AH:118:MET:HE3	20:AH:130:PHE:HB2	1.97	0.45
22:AJ:120:GLN:HA	23:AK:135:ARG:HE	1.80	0.45
25:AM:216:VAL:HB	25:AM:224:HIS:CG	2.51	0.45
27:AO:51:ASP:HB3	27:AO:94:ILE:HG23	1.97	0.45
1:BU:157:THR:OG1	1:BU:159:ARG:NH2	2.50	0.45
1:BU:510:GLU:OE2	1:BU:546:ARG:NH2	2.50	0.45
9:Bc:178:THR:HA	9:Bc:181:LEU:HD23	1.98	0.45
10:Bd:160:ALA:H	10:Bd:161:GLU:HA	1.81	0.45
11:Be:41:ASP:CG	11:Be:42:ASN:H	2.23	0.45
12:Bf:170:TRP:HB3	12:Bf:171:GLN:HB3	1.98	0.45
12:Bf:452:ASN:HD22	12:Bf:466:LEU:HG	1.82	0.45
12:Bf:771:LEU:O	12:Bf:773:LYS:HG3	2.16	0.45
13:BA:348:LEU:HA	13:BA:351:ARG:NH2	2.32	0.45
15:BD:147:ALA:HB1	16:BE:70:ILE:HD13	1.98	0.45
15:BD:266:GLU:HG2	15:BD:311:THR:HA	1.98	0.45
15:BD:335:LEU:HD11	15:BD:372:GLY:HA2	1.98	0.45
15:BD:411:GLU:HA	15:BD:412:GLN:HA	1.72	0.45
16:BE:75:ASN:C	16:BE:77:PRO:HD2	2.40	0.45
16:BE:140:GLU:HA	16:BE:143:ARG:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BE:287:PRO:HA	16:BE:290:LEU:HB2	1.99	0.45
17:BF:403:ALA:HA	17:BF:419:ASP:OD1	2.16	0.45
18:BC:11:LEU:HG	18:BC:13:GLU:HB3	1.98	0.45
20:BH:111:VAL:O	20:BH:115:ALA:HB2	2.15	0.45
21:BI:18:LEU:O	21:BI:22:GLU:HG2	2.16	0.45
27:BO:50:ALA:HB2	28:BP:129:CYS:HB2	1.98	0.45
29:BQ:45:LEU:HD12	29:BQ:103:LEU:HD12	1.99	0.45
1:AU:168:LEU:HD13	1:AU:204:ILE:HD11	1.97	0.45
1:AU:611:ASN:HB3	1:AU:614:VAL:CG1	2.44	0.45
2:AV:59:ALA:N	2:AV:60:ALA:HB3	2.32	0.45
7:Aa:271:LYS:HA	7:Aa:274:LEU:HG	1.99	0.45
9:Ac:229:LEU:CD2	9:Ac:231:LEU:HB2	2.47	0.45
10:Ad:68:ILE:HB	10:Ad:69:PRO:HD3	1.99	0.45
10:Ad:233:GLU:HB3	10:Ad:235:THR:HG23	1.97	0.45
12:Af:182:GLU:HB3	12:Af:183:PRO:HD3	1.99	0.45
12:Af:771:LEU:O	12:Af:773:LYS:HG3	2.16	0.45
12:Af:812:GLY:O	12:Af:815:HIS:NE2	2.49	0.45
14:AB:151:LEU:O	14:AB:152:LEU:HD12	2.16	0.45
15:AD:374:ASP:OD1	15:AD:377:SER:HB2	2.16	0.45
15:AD:414:HIS:CE1	19:AG:25:VAL:HB	2.50	0.45
17:AF:403:ALA:HA	17:AF:419:ASP:OD1	2.16	0.45
18:AC:117:ARG:HG2	18:AC:124:HIS:HB2	1.99	0.45
18:AC:365:GLU:HA	18:AC:368:MET:HG2	1.98	0.45
23:AK:67:ILE:HG12	23:AK:218:ALA:HB2	1.98	0.45
27:AO:50:ALA:HB2	28:AP:129:CYS:HB2	1.98	0.45
31:AS:177:ASP:OD2	27:BO:199:LEU:CB	2.17	0.45
1:BU:62:LEU:O	1:BU:66:LYS:HG2	2.16	0.45
2:BV:144:ASP:N	2:BV:145:LEU:HA	2.31	0.45
7:Ba:193:GLN:HA	7:Ba:196:ARG:HB3	1.96	0.45
8:Bb:6:THR:HB	8:Bb:49:VAL:HG22	1.99	0.45
10:Bd:182:ILE:HG21	10:Bd:213:ARG:HH12	1.81	0.45
12:Bf:452:ASN:HB3	12:Bf:466:LEU:HD21	1.98	0.45
12:Bf:760:PHE:O	12:Bf:764:LEU:CB	2.63	0.45
12:Bf:823:ALA:HB3	12:Bf:827:PRO:HG2	1.98	0.45
12:Bf:833:PHE:O	12:Bf:837:LEU:HG	2.15	0.45
13:BA:362:MET:HG2	13:BA:363:SER:H	1.81	0.45
13:BA:410:LEU:O	13:BA:414:ASN:ND2	2.50	0.45
14:BB:150:VAL:HG12	14:BB:162:VAL:HG12	1.97	0.45
14:BB:209:GLU:HG2	14:BB:210:TYR:N	2.30	0.45
14:BB:387:LYS:HE3	14:BB:395:ILE:HD12	1.97	0.45
15:BD:267:ILE:O	15:BD:270:ILE:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BE:129:ASN:O	16:BE:132:TYR:HB3	2.17	0.45
16:BE:368:MET:O	16:BE:372:ARG:HB2	2.16	0.45
21:BI:28:ILE:HG12	21:BI:133:SER:HB2	1.97	0.45
25:BM:216:VAL:HB	25:BM:224:HIS:CG	2.52	0.45
25:BM:229:LYS:HD2	25:BM:229:LYS:HA	1.59	0.45
32:BT:9:THR:O	32:BT:41:ARG:NH2	2.49	0.45
32:BT:178:TYR:OH	32:BT:208:ASN:O	2.28	0.45
1:AU:9:ILE:HD11	1:AU:37:GLU:HG3	1.98	0.45
1:AU:173:VAL:N	1:AU:174:PRO:HD3	2.31	0.45
1:AU:193:PHE:HA	1:AU:196:LYS:HD2	1.98	0.45
2:AV:133:PRO:O	2:AV:137:GLU:HG3	2.15	0.45
3:AW:136:ILE:CD1	16:AE:161:ARG:CZ	2.94	0.45
4:AX:203:PRO:HB2	4:AX:204:PRO:C	2.41	0.45
5:AY:237:ARG:HD3	5:AY:264:TYR:CE1	2.52	0.45
7:Aa:268:LEU:HD23	7:Aa:271:LYS:HD3	1.98	0.45
12:Af:385:PHE:HB2	12:Af:527:VAL:CG1	2.46	0.45
12:Af:393:ASP:O	12:Af:397:LYS:N	2.48	0.45
12:Af:401:LYS:C	12:Af:403:LYS:H	2.24	0.45
12:Af:441:LYS:NZ	12:Af:442:SER:O	2.45	0.45
12:Af:719:PRO:HB3	12:Af:757:ASN:ND2	2.32	0.45
13:AA:348:LEU:HA	13:AA:351:ARG:NH2	2.32	0.45
14:AB:393:ALA:HB2	35:AB:501:ADP:O4'	2.16	0.45
15:AD:114:ARG:NH2	18:AC:62:GLU:CD	2.75	0.45
15:AD:342:ARG:HG3	15:AD:364:VAL:HG21	1.98	0.45
16:AE:228:CYS:SG	16:AE:229:ILE:N	2.90	0.45
18:AC:11:LEU:HG	18:AC:13:GLU:HB3	1.98	0.45
18:AC:310:ARG:HA	18:AC:311:ILE:HA	1.74	0.45
19:AG:58:ASP:OD1	19:AG:59:LYS:N	2.49	0.45
21:AI:28:ILE:HG12	21:AI:133:SER:HB2	1.97	0.45
25:AM:107:PRO:HB2	25:AM:110:HIS:HD2	1.82	0.45
25:AM:215:TRP:HH2	25:AM:219:LEU:H	1.63	0.45
31:AS:6:VAL:HG12	31:AS:57:PHE:CE1	2.52	0.45
31:AS:157:ASN:ND2	28:BP:172:LEU:O	2.43	0.45
32:AT:33:LEU:HD22	26:BN:134:TYR:CE1	2.43	0.45
32:AT:49:THR:HB	32:AT:85:PRO:HG3	1.98	0.45
3:BW:80:TRP:CD1	3:BW:84:ASN:HD21	2.34	0.45
4:BX:297:ARG:HB2	4:BX:337:ARG:NH1	2.31	0.45
5:BY:357:ASN:CB	5:BY:358:ARG:HA	2.45	0.45
6:BZ:210:SER:HB2	6:BZ:214:LYS:HZ3	1.82	0.45
7:Ba:129:GLN:HG3	7:Ba:130:VAL:H	1.81	0.45
9:Bc:88:ASP:HB3	9:Bc:91:PHE:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bd:68:ILE:HB	10:Bd:69:PRO:HD3	1.99	0.45
12:Bf:393:ASP:HA	12:Bf:396:ASN:HB2	1.98	0.45
13:BA:102:ILE:HA	13:BA:113:ILE:HA	1.97	0.45
14:BB:173:VAL:HA	18:BC:232:ARG:HG2	1.98	0.45
15:BD:114:ARG:NH2	18:BC:62:GLU:CD	2.75	0.45
15:BD:146:GLU:HG3	15:BD:252:ARG:HG3	1.97	0.45
17:BF:69:MET:HA	17:BF:72:LYS:HG2	1.99	0.45
22:BJ:66:ASP:OD1	22:BJ:67:ASP:N	2.49	0.45
25:BM:107:PRO:HB2	25:BM:110:HIS:HD2	1.82	0.45
31:BS:201:GLU:OE1	31:BS:201:GLU:N	2.49	0.45
32:BT:89:HIS:CE1	32:BT:131:ALA:HB1	2.50	0.45
3:AW:42:GLU:O	3:AW:45:GLU:HB3	2.17	0.45
11:Ae:62:LYS:O	11:Ae:66:LYS:HG3	2.16	0.45
12:Af:294:MET:HA	12:Af:297:MET:SD	2.57	0.45
12:Af:823:ALA:HB3	12:Af:827:PRO:HG2	1.98	0.45
13:AA:108:ASP:HB2	13:AA:109:PRO:HD3	1.98	0.45
16:AE:208:ILE:C	16:AE:210:GLU:H	2.22	0.45
17:AF:79:LYS:O	17:AF:82:VAL:HG22	2.16	0.45
17:AF:94:ILE:HA	17:AF:147:PRO:HB3	1.98	0.45
18:AC:175:PHE:HD1	18:AC:180:ILE:HG23	1.81	0.45
19:AG:157:ALA:HB3	19:AG:159:TYR:CD2	2.51	0.45
20:AH:80:GLY:O	20:AH:84:ARG:HG3	2.17	0.45
22:AJ:66:ASP:OD1	22:AJ:67:ASP:N	2.48	0.45
29:AQ:22:ALA:HB2	29:BQ:170:ARG:HH11	1.82	0.45
31:AS:157:ASN:HB2	28:BP:173:ASN:CG	2.41	0.45
2:BV:133:PRO:O	2:BV:137:GLU:HG3	2.15	0.45
5:BY:216:TYR:O	5:BY:220:VAL:HG23	2.16	0.45
7:Ba:271:LYS:HA	7:Ba:274:LEU:HG	1.99	0.45
7:Ba:307:VAL:O	7:Ba:311:VAL:HG22	2.17	0.45
8:Bb:157:VAL:HG21	8:Bb:170:LEU:HB2	1.98	0.45
12:Bf:385:PHE:HB2	12:Bf:527:VAL:CG1	2.46	0.45
12:Bf:574:GLU:HA	12:Bf:600:TYR:CZ	2.51	0.45
14:BB:184:TYR:HD2	14:BB:240:ALA:HB1	1.80	0.45
15:BD:228:ILE:HG13	15:BD:262:ILE:HG12	1.99	0.45
16:BE:193:CYS:SG	16:BE:227:PRO:HG2	2.56	0.45
17:BF:171:ARG:HH12	17:BF:267:LEU:HD21	1.81	0.45
18:BC:117:ARG:HG2	18:BC:124:HIS:HB2	1.99	0.45
18:BC:378:VAL:HG12	18:BC:379:THR:N	2.30	0.45
19:BG:157:ALA:HB3	19:BG:159:TYR:CD2	2.51	0.45
22:BJ:85:ASN:HB3	29:BQ:70:ARG:HH12	1.80	0.45
24:BL:146:GLN:HE22	24:BL:159:MET:HE2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BM:152:ASP:OD1	25:BM:156:VAL:N	2.49	0.45
1:AU:62:LEU:O	1:AU:66:LYS:HG2	2.17	0.45
1:AU:699:THR:HG21	1:AU:812:ALA:O	2.16	0.45
2:AV:350:GLN:HB3	2:AV:353:LEU:HB3	1.98	0.45
3:AW:33:LYS:O	3:AW:37:GLU:HG3	2.17	0.45
4:AX:207:GLN:NE2	4:AX:211:ASP:OD1	2.45	0.45
5:AY:118:GLU:O	5:AY:121:LEU:HG	2.17	0.45
6:AZ:124:ILE:HA	6:AZ:135:THR:HA	1.99	0.45
7:Aa:307:VAL:O	7:Aa:311:VAL:HG22	2.17	0.45
8:Ab:6:THR:HB	8:Ab:49:VAL:HG22	1.99	0.45
9:Ac:104:ARG:HB3	9:Ac:106:GLU:OE1	2.17	0.45
10:Ad:182:ILE:HG21	10:Ad:213:ARG:HH12	1.81	0.45
12:Af:271:MET:HE2	12:Af:273:ASN:ND2	2.31	0.45
12:Af:350:LYS:NZ	12:Af:827:PRO:HA	2.32	0.45
13:AA:94:GLN:C	13:AA:96:ALA:N	2.74	0.45
15:AD:81:ARG:HG2	15:AD:82:ILE:HD12	1.98	0.45
15:AD:237:GLN:HG3	15:AD:242:GLU:HG2	1.98	0.45
17:AF:69:MET:HA	17:AF:72:LYS:HG2	1.99	0.45
17:AF:344:ARG:NH1	17:AF:346:GLY:HA3	2.31	0.45
18:AC:321:ASN:O	18:AC:325:ARG:HG3	2.16	0.45
19:AG:84:THR:O	19:AG:87:SER:OG	2.21	0.45
20:AH:67:PRO:O	20:AH:91:ARG:NH2	2.46	0.45
20:AH:108:ALA:O	20:AH:112:GLN:HG2	2.15	0.45
21:AI:13:SER:O	21:AI:15:GLU:N	2.50	0.45
23:AK:39:GLY:HA2	23:AK:48:LEU:HA	1.97	0.45
24:AL:101:ARG:HG3	24:AL:102:PRO:O	2.16	0.45
27:AO:20:ALA:O	27:AO:27:ALA:HB3	2.17	0.45
29:AQ:45:LEU:HD12	29:AQ:103:LEU:HD12	1.98	0.45
30:AR:193:ALA:HB3	28:BP:203:ARG:NH1	2.32	0.45
2:BV:197:THR:C	2:BV:199:ASN:H	2.25	0.45
2:BV:239:THR:HA	2:BV:240:LEU:HA	1.73	0.45
3:BW:33:LYS:O	3:BW:37:GLU:HG3	2.17	0.45
6:BZ:124:ILE:HA	6:BZ:135:THR:HA	1.99	0.45
6:BZ:176:LEU:HD12	6:BZ:178:ASP:H	1.81	0.45
7:Ba:342:ASP:HB2	7:Ba:345:GLN:HG2	1.98	0.45
12:Bf:248:LEU:HD21	12:Bf:285:CYS:SG	2.57	0.45
12:Bf:530:CYS:O	12:Bf:531:ASN:HB2	2.17	0.45
14:BB:167:THR:OG1	14:BB:168:ASP:N	2.49	0.45
14:BB:253:SER:OG	14:BB:257:GLN:OE1	2.32	0.45
14:BB:294:ARG:HD3	18:BC:261:GLY:HA2	1.97	0.45
14:BB:393:ALA:HB2	35:BB:501:ADP:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BD:414:HIS:HE1	19:BG:25:VAL:HB	1.82	0.45
16:BE:214:LEU:O	16:BE:218:MET:HB2	2.16	0.45
17:BF:223:VAL:HG23	17:BF:350:ARG:HB2	1.99	0.45
18:BC:307:ARG:O	18:BC:309:GLY:N	2.50	0.45
18:BC:321:ASN:O	18:BC:325:ARG:HG3	2.16	0.45
22:BJ:192:ILE:O	22:BJ:196:LEU:CB	2.65	0.45
2:AV:62:HIS:HA	2:AV:65:ARG:HB3	1.98	0.45
2:AV:161:PRO:O	2:AV:164:GLU:HB2	2.17	0.45
2:AV:443:ARG:NH2	10:Ad:180:GLY:O	2.49	0.45
6:AZ:233:VAL:O	6:AZ:236:LEU:HB2	2.17	0.45
7:Aa:163:TYR:CD1	7:Aa:172:TYR:HB2	2.52	0.45
8:Ab:140:ILE:HB	8:Ab:170:LEU:HD13	1.99	0.45
9:Ac:178:THR:HA	9:Ac:181:LEU:HD23	1.98	0.45
12:Af:248:LEU:HD21	12:Af:285:CYS:SG	2.57	0.45
12:Af:597:VAL:HG13	12:Af:631:LYS:HD3	1.98	0.45
12:Af:839:PRO:O	12:Af:842:VAL:HB	2.17	0.45
13:AA:352:THR:O	13:AA:356:LYS:HG3	2.17	0.45
16:AE:147:GLU:O	16:AE:151:LEU:HB3	2.17	0.45
16:AE:312:ILE:HG23	16:AE:343:LEU:HD23	1.98	0.45
18:AC:78:ARG:HA	18:AC:110:PRO:HG3	1.98	0.45
18:AC:84:LYS:HB3	18:AC:96:VAL:HG22	1.99	0.45
18:AC:378:VAL:HG12	18:AC:379:THR:N	2.30	0.45
22:AJ:186:LEU:O	22:AJ:190:LEU:CB	2.63	0.45
30:AR:26:ILE:HD12	28:BP:175:VAL:O	2.12	0.45
31:AS:147:PRO:HB2	28:BP:149:MET:HE2	1.20	0.45
31:AS:169:ASP:OD2	31:AS:173:ARG:NH1	2.46	0.45
31:AS:211:ARG:HD2	27:BO:194:LYS:O	2.16	0.45
1:BU:193:PHE:HA	1:BU:196:LYS:HD2	1.97	0.45
2:BV:197:THR:HG22	2:BV:200:ARG:H	1.81	0.45
3:BW:136:ILE:CD1	16:BE:161:ARG:CZ	2.94	0.45
3:BW:144:ARG:HA	3:BW:147:LYS:HE2	1.99	0.45
5:BY:118:GLU:O	5:BY:121:LEU:HG	2.17	0.45
10:Bd:35:PHE:HD2	10:Bd:36:LEU:HD23	1.80	0.45
12:Bf:294:MET:HA	12:Bf:297:MET:SD	2.57	0.45
12:Bf:333:LEU:HA	12:Bf:336:GLU:HG2	1.98	0.45
12:Bf:401:LYS:C	12:Bf:403:LYS:H	2.24	0.45
12:Bf:687:ARG:HA	12:Bf:690:VAL:HG23	1.98	0.45
12:Bf:785:ARG:O	12:Bf:789:SER:CB	2.65	0.45
13:BA:90:GLU:CG	13:BA:94:GLN:NE2	2.75	0.45
13:BA:352:THR:O	13:BA:356:LYS:HG3	2.17	0.45
16:BE:331:ILE:HD12	16:BE:371:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BC:139:MET:SD	18:BC:213:ARG:HB2	2.57	0.45
18:BC:254:ILE:HA	18:BC:257:SER:HB3	1.98	0.45
19:BG:38:THR:HA	19:BG:172:GLN:NE2	2.31	0.45
21:BI:47:ALA:O	21:BI:212:GLU:N	2.50	0.45
1:AU:152:GLY:HA3	15:AD:41:TYR:CD2	2.52	0.45
1:AU:157:THR:OG1	1:AU:159:ARG:NH2	2.50	0.45
1:AU:158:ARG:HD2	1:AU:193:PHE:CE1	2.52	0.45
1:AU:243:LEU:HD21	1:AU:913:ILE:HD13	1.98	0.45
1:AU:510:GLU:OE2	1:AU:546:ARG:NH2	2.50	0.45
1:AU:908:ILE:HG12	1:AU:909:GLY:H	1.82	0.45
2:AV:96:ARG:HA	2:AV:98:LEU:HD12	1.99	0.45
2:AV:197:THR:C	2:AV:199:ASN:H	2.25	0.45
3:AW:230:MET:HE2	3:AW:246:HIS:CE1	2.52	0.45
4:AX:258:LYS:HE3	4:AX:270:LEU:HD11	1.99	0.45
7:Aa:4:VAL:HB	7:Aa:5:PRO:HD3	1.98	0.45
11:Ae:41:ASP:CG	11:Ae:42:ASN:H	2.23	0.45
13:AA:420:TYR:HE1	14:AB:350:LYS:HG2	1.81	0.45
14:AB:418:ASP:O	14:AB:422:SER:CB	2.64	0.45
16:AE:129:ASN:O	16:AE:132:TYR:HB3	2.17	0.45
18:AC:168:PRO:HA	18:AC:172:PRO:HG3	1.99	0.45
19:AG:89:SER:OG	25:AM:120:HIS:ND1	2.48	0.45
25:AM:185:THR:O	25:AM:189:ILE:HG12	2.16	0.45
25:AM:229:LYS:HA	25:AM:229:LYS:HD2	1.59	0.45
31:AS:201:GLU:OE1	31:AS:201:GLU:N	2.49	0.45
1:BU:59:PHE:HA	1:BU:62:LEU:HD13	1.99	0.45
1:BU:460:TYR:HD2	1:BU:461:LEU:HD12	1.82	0.45
1:BU:632:GLN:O	1:BU:636:VAL:HG22	2.16	0.45
2:BV:80:LYS:HD2	2:BV:82:LEU:O	2.17	0.45
2:BV:319:HIS:HB2	2:BV:320:THR:HA	1.99	0.45
6:BZ:21:ASP:OD1	6:BZ:22:HIS:N	2.50	0.45
7:Ba:4:VAL:HB	7:Ba:5:PRO:HD3	1.98	0.45
7:Ba:339:ARG:HA	7:Ba:339:ARG:HD3	1.75	0.45
9:Bc:29:GLU:HB2	9:Bc:203:ILE:HG13	1.97	0.45
12:Bf:441:LYS:CE	12:Bf:445:LEU:HD23	2.47	0.45
14:BB:100:ASP:CA	14:BB:103:ARG:CZ	2.80	0.45
14:BB:224:LEU:HB3	14:BB:234:LEU:HD13	1.98	0.45
17:BF:79:LYS:O	17:BF:82:VAL:HG22	2.16	0.45
18:BC:168:PRO:HA	18:BC:172:PRO:HG3	1.99	0.45
18:BC:343:ASN:HB3	18:BC:346:LYS:HG2	1.99	0.45
20:BH:44:VAL:HB	20:BH:213:CYS:HB2	1.99	0.45
21:BI:13:SER:O	21:BI:15:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BJ:116:GLN:OE1	23:BK:135:ARG:NH2	2.50	0.45
23:BK:202:LEU:HA	23:BK:205:VAL:HG22	1.98	0.45
31:BS:27:THR:HB	31:BS:40:SER:H	1.82	0.45
1:AU:26:LYS:O	1:AU:30:VAL:HG22	2.17	0.45
1:AU:59:PHE:HA	1:AU:62:LEU:HD13	1.99	0.45
2:AV:80:LYS:HD2	2:AV:82:LEU:O	2.17	0.45
7:Aa:70:ARG:HG2	8:Ab:17:ARG:HB3	1.98	0.45
7:Aa:304:VAL:O	7:Aa:307:VAL:HG22	2.17	0.45
8:Ab:20:ASP:CG	8:Ab:25:ARG:HE	2.25	0.45
9:Ac:46:ARG:O	16:AE:85:ARG:CZ	2.64	0.45
10:Ad:44:THR:O	10:Ad:47:GLN:NE2	2.49	0.45
12:Af:333:LEU:HA	12:Af:336:GLU:HG2	1.98	0.45
12:Af:452:ASN:HD22	12:Af:466:LEU:HG	1.82	0.45
12:Af:815:HIS:C	12:Af:817:VAL:H	2.24	0.45
17:AF:86:LEU:HD23	17:AF:86:LEU:HA	1.82	0.45
17:AF:137:ILE:HD13	17:AF:160:ILE:HB	1.97	0.45
18:AC:143:VAL:HG22	18:AC:144:PRO:O	2.17	0.45
23:AK:202:LEU:HA	23:AK:205:VAL:HG22	1.98	0.45
24:AL:85:CYS:O	24:AL:88:MET:HB3	2.16	0.45
29:AQ:7:ILE:HB	29:AQ:14:LEU:HD23	1.97	0.45
31:AS:197:ILE:HB	31:AS:204:ARG:HB2	1.99	0.45
1:BU:26:LYS:O	1:BU:30:VAL:HG22	2.17	0.45
1:BU:152:GLY:HA3	15:BD:41:TYR:CD2	2.52	0.45
7:Ba:304:VAL:O	7:Ba:307:VAL:HG22	2.17	0.45
8:Bb:95:LEU:HA	8:Bb:98:LYS:NZ	2.32	0.45
10:Bd:45:LYS:HG2	10:Bd:48:LEU:HD12	1.99	0.45
11:Be:40:GLU:N	11:Be:41:ASP:HA	2.31	0.45
12:Bf:680:ARG:NH2	13:BA:74:PRO:HG2	2.31	0.45
12:Bf:719:PRO:HB3	12:Bf:757:ASN:ND2	2.32	0.45
12:Bf:823:ALA:HB3	12:Bf:827:PRO:HD2	1.99	0.45
13:BA:97:ARG:HA	13:BA:98:CYS:HA	1.55	0.45
13:BA:229:VAL:HG22	13:BA:237:PHE:CZ	2.31	0.45
13:BA:311:PRO:HD2	13:BA:313:GLY:HA2	1.98	0.45
14:BB:151:LEU:O	14:BB:152:LEU:HD12	2.16	0.45
16:BE:341:ALA:O	16:BE:345:ASN:OD1	2.35	0.45
17:BF:70:LYS:HG3	17:BF:74:LYS:HE3	1.98	0.45
17:BF:144:LYS:HA	17:BF:145:LEU:HA	1.76	0.45
18:BC:373:GLU:HG2	18:BC:375:ARG:NH1	2.32	0.45
19:BG:70:PHE:CD2	19:BG:91:VAL:HG21	2.52	0.45
20:BH:80:GLY:O	20:BH:84:ARG:HG3	2.17	0.45
20:BH:111:VAL:O	20:BH:115:ALA:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BM:98:PHE:CD1	25:BM:106:ILE:HD13	2.52	0.45
28:BP:144:GLU:O	28:BP:148:GLY:HA3	2.17	0.45
32:BT:45:VAL:HG13	32:BT:71:VAL:HG21	1.98	0.45
1:AU:380:THR:HG23	1:AU:382:SER:H	1.82	0.45
1:AU:460:TYR:HD2	1:AU:461:LEU:HD12	1.82	0.45
5:AY:39:ASP:OD1	5:AY:39:ASP:N	2.49	0.45
5:AY:50:MET:SD	5:AY:74:LYS:HB3	2.57	0.45
5:AY:179:ARG:HH11	18:AC:340:ARG:NH2	2.15	0.45
5:AY:377:LEU:O	5:AY:381:GLN:HG3	2.17	0.45
7:Aa:335:TRP:CG	7:Aa:336:VAL:H	2.34	0.45
7:Aa:342:ASP:HB2	7:Aa:345:GLN:HG2	1.98	0.45
9:Ac:88:ASP:HB3	9:Ac:91:PHE:CB	2.47	0.45
9:Ac:151:VAL:HG13	9:Ac:152:LYS:N	2.25	0.45
12:Af:294:MET:O	12:Af:298:LEU:N	2.33	0.45
12:Af:635:LYS:NZ	12:Af:636:ASP:OD1	2.50	0.45
14:AB:139:VAL:HA	14:AB:140:ASP:CB	2.47	0.45
14:AB:343:ARG:HB2	14:AB:344:PRO:HD3	1.99	0.45
15:AD:266:GLU:HG2	15:AD:311:THR:HA	1.98	0.45
21:AI:47:ALA:O	21:AI:212:GLU:N	2.50	0.45
21:AI:220:ASN:HA	21:AI:221:GLY:HA2	1.55	0.45
22:AJ:116:GLN:OE1	23:AK:135:ARG:NH2	2.50	0.45
28:AP:144:GLU:O	28:AP:148:GLY:HA3	2.17	0.45
29:AQ:3:TYR:CE2	29:AQ:131:ALA:HA	2.52	0.45
3:BW:42:GLU:O	3:BW:45:GLU:HB3	2.17	0.45
3:BW:124:LEU:O	3:BW:128:LEU:HD23	2.17	0.45
5:BY:50:MET:SD	5:BY:74:LYS:HB3	2.57	0.45
5:BY:174:TRP:NE1	18:BC:338:LEU:HB3	2.32	0.45
5:BY:237:ARG:HD3	5:BY:264:TYR:CE1	2.52	0.45
6:BZ:190:ARG:HG3	6:BZ:191:ILE:HD12	1.98	0.45
7:Ba:163:TYR:CD1	7:Ba:172:TYR:HB2	2.52	0.45
9:Bc:275:VAL:HG13	9:Bc:276:GLY:H	1.82	0.45
12:Bf:597:VAL:HG13	12:Bf:631:LYS:HD3	1.98	0.45
13:BA:92:PRO:C	13:BA:93:LEU:CD1	2.86	0.45
13:BA:220:THR:HB	34:BA:501:ATP:N7	2.31	0.45
14:BB:189:GLY:HA3	14:BB:360:THR:HG23	1.99	0.45
16:BE:138:LEU:HD13	16:BE:141:GLN:CD	2.42	0.45
16:BE:228:CYS:SG	16:BE:229:ILE:N	2.90	0.45
17:BF:294:LYS:HZ3	17:BF:340:PRO:HG2	1.82	0.45
17:BF:314:LEU:HB3	17:BF:347:ARG:HH11	1.82	0.45
17:BF:320:PHE:HB3	17:BF:322:PRO:HD2	1.97	0.45
18:BC:134:LEU:HD21	18:BC:219:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BH:67:PRO:HA	20:BH:73:GLY:HA2	1.98	0.45
23:BK:212:ALA:HA	23:BK:238:ILE:HD11	1.99	0.45
30:BR:6:PHE:HB2	30:BR:125:THR:HG22	1.99	0.45
31:BS:6:VAL:HG12	31:BS:57:PHE:CE1	2.52	0.45
1:AU:707:ASN:O	1:AU:711:GLN:HG2	2.17	0.44
2:AV:279:GLN:NE2	2:AV:285:TRP:CD1	2.85	0.44
2:AV:363:LEU:HA	2:AV:378:VAL:HG11	2.00	0.44
2:AV:455:LYS:H	2:AV:456:GLY:HA2	1.82	0.44
3:AW:441:LYS:HA	3:AW:444:HIS:HE1	1.82	0.44
7:Aa:206:LEU:HB3	7:Aa:264:ASN:OD1	2.16	0.44
12:Af:414:LEU:O	12:Af:418:LEU:HB2	2.17	0.44
13:AA:362:MET:HG2	13:AA:363:SER:H	1.81	0.44
16:AE:368:MET:O	16:AE:372:ARG:HB2	2.16	0.44
18:AC:189:TYR:CE2	18:AC:316:GLU:HA	2.51	0.44
18:AC:264:GLY:HA2	18:AC:267:SER:HB3	1.97	0.44
18:AC:266:ASP:O	18:AC:269:VAL:N	2.44	0.44
19:AG:210:PHE:CE1	19:AG:214:GLU:HB2	2.53	0.44
23:AK:212:ALA:HA	23:AK:238:ILE:HD11	1.99	0.44
27:AO:36:PHE:CD1	27:AO:42:TYR:HE1	2.34	0.44
27:AO:132:LEU:HD13	32:BT:144:TYR:CB	2.46	0.44
28:AP:190:ILE:HG22	28:AP:195:ILE:HG23	1.99	0.44
31:AS:73:LYS:O	31:AS:77:HIS:ND1	2.39	0.44
1:BU:908:ILE:HG12	1:BU:909:GLY:H	1.82	0.44
2:BV:59:ALA:N	2:BV:60:ALA:HB3	2.32	0.44
2:BV:419:LEU:O	2:BV:422:ILE:HG22	2.17	0.44
3:BW:253:THR:HB	3:BW:254:PRO:HD3	2.00	0.44
3:BW:333:LEU:O	3:BW:333:LEU:HD12	2.17	0.44
3:BW:440:ASN:HB3	6:BZ:230:LEU:HD11	1.98	0.44
4:BX:173:GLU:O	4:BX:176:THR:HG22	2.17	0.44
4:BX:296:ASN:O	4:BX:337:ARG:NH2	2.43	0.44
12:Bf:839:PRO:O	12:Bf:842:VAL:HB	2.17	0.44
13:BA:94:GLN:C	13:BA:96:ALA:N	2.74	0.44
13:BA:347:ASP:O	13:BA:351:ARG:HG3	2.17	0.44
14:BB:170:LEU:HD21	14:BB:270:LEU:HD23	1.99	0.44
15:BD:132:LEU:HD21	15:BD:139:LEU:HD23	1.98	0.44
15:BD:353:ASN:CG	15:BD:393:ILE:HG12	2.41	0.44
16:BE:254:GLN:O	16:BE:258:MET:HG2	2.17	0.44
17:BF:191:LEU:HG	17:BF:194:GLN:NE2	2.22	0.44
19:BG:48:ALA:HB2	19:BG:149:PRO:HB2	1.99	0.44
22:BJ:96:LEU:HD11	29:BQ:58:GLU:HB3	1.99	0.44
24:BL:137:TYR:HE2	24:BL:215:VAL:HG13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BO:20:ALA:HB3	27:BO:28:ASP:HB3	1.98	0.44
32:BT:41:ARG:HH21	32:BT:54:SER:HA	1.82	0.44
1:AU:28:ASN:HD22	1:AU:59:PHE:HZ	1.65	0.44
2:AV:76:LYS:HA	2:AV:77:GLU:HA	1.74	0.44
2:AV:144:ASP:N	2:AV:145:LEU:HA	2.31	0.44
3:AW:366:MET:SD	3:AW:378:MET:HE2	2.58	0.44
5:AY:174:TRP:CD1	18:AC:338:LEU:HB3	2.52	0.44
5:AY:197:ALA:HB3	5:AY:226:VAL:HG21	1.99	0.44
7:Aa:129:GLN:HG3	7:Aa:130:VAL:H	1.81	0.44
8:Ab:157:VAL:HG21	8:Ab:170:LEU:HB2	1.98	0.44
9:Ac:36:LEU:HD11	9:Ac:71:ASP:HA	2.00	0.44
12:Af:353:LEU:HB3	12:Af:354:GLU:H	1.41	0.44
12:Af:441:LYS:CE	12:Af:445:LEU:HD23	2.47	0.44
12:Af:452:ASN:HB3	12:Af:466:LEU:HD21	1.98	0.44
13:AA:277:ILE:HG22	13:AA:321:THR:HB	1.99	0.44
14:AB:190:LEU:HD13	14:AB:194:ILE:HB	1.99	0.44
14:AB:211:TYR:CE1	14:AB:218:PRO:HD2	2.36	0.44
15:AD:200:ARG:HH12	15:AD:300:ASP:CG	2.26	0.44
15:AD:231:VAL:HG22	16:AE:262:ASN:ND2	2.31	0.44
15:AD:414:HIS:HE1	19:AG:25:VAL:HB	1.82	0.44
16:AE:134:GLU:HB3	16:AE:315:ILE:HD13	2.00	0.44
16:AE:138:LEU:HD23	16:AE:139:SER:N	2.32	0.44
16:AE:341:ALA:O	16:AE:345:ASN:OD1	2.35	0.44
18:AC:134:LEU:HD21	18:AC:219:LEU:HD23	1.99	0.44
20:AH:123:GLN:HG3	21:AI:128:ARG:HB3	1.99	0.44
22:AJ:156:TRP:HZ3	22:AJ:160:ALA:H	1.65	0.44
26:AN:140:ASP:CG	26:BN:166:ARG:NH2	2.71	0.44
32:AT:41:ARG:HH21	32:AT:54:SER:HA	1.82	0.44
32:AT:181:ALA:N	26:BN:26:ILE:HG13	2.23	0.44
32:AT:199:ILE:HG22	32:AT:200:GLU:H	1.81	0.44
1:BU:158:ARG:HD2	1:BU:193:PHE:CE1	2.52	0.44
2:BV:89:LYS:HD2	2:BV:93:PHE:HE2	1.83	0.44
2:BV:100:MET:HG2	2:BV:102:PRO:HD2	1.99	0.44
2:BV:137:GLU:HA	2:BV:140:ASP:HB2	1.98	0.44
2:BV:449:ALA:HB1	2:BV:459:GLN:O	2.18	0.44
3:BW:220:GLU:HA	3:BW:221:LYS:HA	1.82	0.44
3:BW:230:MET:HE2	3:BW:246:HIS:CE1	2.52	0.44
5:BY:179:ARG:HH11	18:BC:340:ARG:NH2	2.15	0.44
6:BZ:118:ASN:OD1	6:BZ:118:ASN:N	2.50	0.44
6:BZ:205:LEU:HA	6:BZ:208:ILE:HG22	1.98	0.44
6:BZ:208:ILE:HA	6:BZ:211:TYR:CD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bc:36:LEU:HD11	9:Bc:71:ASP:HA	2.00	0.44
10:Bd:10:ASN:OD1	10:Bd:11:ARG:N	2.50	0.44
12:Bf:182:GLU:HB3	12:Bf:183:PRO:HD3	1.99	0.44
12:Bf:350:LYS:NZ	12:Bf:827:PRO:HA	2.32	0.44
16:BE:247:THR:OG1	16:BE:248:SER:N	2.48	0.44
16:BE:312:ILE:HG23	16:BE:343:LEU:HD23	1.98	0.44
17:BF:172:VAL:HG13	17:BF:267:LEU:HG	2.00	0.44
17:BF:238:ARG:HE	17:BF:250:LYS:HG2	1.83	0.44
17:BF:428:GLN:HA	17:BF:429:ALA:HA	1.48	0.44
18:BC:143:VAL:HG22	18:BC:144:PRO:O	2.17	0.44
19:BG:15:ILE:HD12	20:BH:21:GLN:NE2	2.31	0.44
19:BG:113:MET:SD	27:BO:70:THR:HG22	2.56	0.44
19:BG:196:GLU:O	19:BG:200:THR:HG23	2.17	0.44
20:BH:225:GLU:HA	20:BH:228:ASP:HB2	2.00	0.44
21:BI:68:LEU:HD13	21:BI:90:LEU:HD21	2.00	0.44
27:BO:36:PHE:CD1	27:BO:42:TYR:HE1	2.34	0.44
27:BO:187:ARG:HA	27:BO:188:PRO:HA	1.81	0.44
28:BP:66:ARG:O	28:BP:69:PHE:HB3	2.18	0.44
32:BT:45:VAL:HB	32:BT:49:THR:HG23	1.98	0.44
1:AU:757:MET:HG3	1:AU:758:PRO:HD3	1.99	0.44
12:Af:404:ASP:O	12:Af:408:LEU:HG	2.18	0.44
12:Af:542:ILE:HG21	12:Af:558:LEU:HD21	2.00	0.44
12:Af:823:ALA:HB3	12:Af:827:PRO:HD2	1.99	0.44
13:AA:228:ALA:O	13:AA:232:ARG:HB2	2.17	0.44
14:AB:189:GLY:HA3	14:AB:360:THR:HG23	1.99	0.44
14:AB:365:PHE:HB2	14:AB:395:ILE:HD13	1.97	0.44
15:AD:149:SER:OG	15:AD:150:SER:N	2.50	0.44
15:AD:239:TYR:HE2	16:AE:75:ASN:O	2.00	0.44
17:AF:281:SER:HB3	17:AF:326:VAL:HG13	2.00	0.44
18:AC:167:LEU:HD22	18:AC:175:PHE:CE2	2.52	0.44
18:AC:255:GLY:CA	18:AC:256:SER:HB2	2.48	0.44
19:AG:116:LYS:HG2	19:AG:160:TYR:CE2	2.52	0.44
19:AG:144:ASP:OD1	19:AG:145:GLU:N	2.45	0.44
20:AH:67:PRO:HA	20:AH:73:GLY:HA2	1.98	0.44
21:AI:125:GLY:HA2	22:AJ:3:TYR:CD2	2.52	0.44
27:AO:210:ALA:HA	31:BS:159:GLN:NE2	2.29	0.44
29:AQ:135:GLY:O	29:AQ:139:THR:HG23	2.18	0.44
31:AS:180:ILE:HG21	27:BO:195:LYS:CG	2.44	0.44
1:BU:380:THR:HG23	1:BU:382:SER:H	1.82	0.44
2:BV:433:ASP:OD1	2:BV:433:ASP:N	2.50	0.44
3:BW:175:GLY:HA2	16:BE:161:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:343:SER:HB2	4:BX:387:ILE:HB	1.98	0.44
5:BY:367:GLN:OE1	5:BY:371:LYS:HE2	2.16	0.44
9:Bc:46:ARG:O	16:BE:85:ARG:CZ	2.64	0.44
10:Bd:168:ASP:O	10:Bd:171:LEU:HB2	2.17	0.44
12:Bf:170:TRP:HA	12:Bf:171:GLN:HA	1.76	0.44
13:BA:194:PRO:HG3	13:BA:201:PHE:HE2	1.83	0.44
14:BB:260:LEU:O	14:BB:260:LEU:HD12	2.17	0.44
15:BD:231:VAL:HG22	16:BE:262:ASN:ND2	2.31	0.44
15:BD:244:PRO:HD3	15:BD:288:ILE:HD11	1.98	0.44
15:BD:388:ARG:HH22	16:BE:144:GLU:HA	1.83	0.44
18:BC:215:SER:HA	18:BC:216:GLY:HA3	1.48	0.44
21:BI:125:GLY:HA2	22:BJ:3:TYR:CD2	2.52	0.44
22:BJ:156:TRP:HZ3	22:BJ:160:ALA:H	1.65	0.44
22:BJ:201:SER:HA	22:BJ:206:ILE:HD11	1.99	0.44
29:BQ:3:TYR:CE2	29:BQ:131:ALA:HA	2.52	0.44
31:BS:197:ILE:HB	31:BS:204:ARG:HB2	1.99	0.44
2:AV:319:HIS:HB2	2:AV:320:THR:HA	1.99	0.44
2:AV:408:ARG:O	2:AV:411:SER:OG	2.23	0.44
2:AV:428:LEU:HD21	2:AV:434:ALA:N	2.33	0.44
4:AX:142:ARG:HD3	4:AX:145:GLU:HG3	1.99	0.44
4:AX:296:ASN:O	4:AX:337:ARG:NH2	2.44	0.44
5:AY:216:TYR:O	5:AY:220:VAL:HG23	2.16	0.44
6:AZ:21:ASP:OD1	6:AZ:22:HIS:N	2.50	0.44
8:Ab:29:GLN:O	8:Ab:33:VAL:HG23	2.17	0.44
8:Ab:140:ILE:O	8:Ab:170:LEU:HA	2.18	0.44
9:Ac:128:ASN:O	9:Ac:131:GLN:NE2	2.51	0.44
9:Ac:152:LYS:HG3	9:Ac:153:GLY:N	2.33	0.44
9:Ac:275:VAL:HG13	9:Ac:276:GLY:H	1.82	0.44
13:AA:297:ARG:O	13:AA:301:GLU:HB3	2.18	0.44
13:AA:325:ASP:HB2	13:AA:326:THR:HA	1.99	0.44
15:AD:228:ILE:HG13	15:AD:262:ILE:HG12	1.99	0.44
17:AF:70:LYS:HG3	17:AF:74:LYS:HE3	1.98	0.44
17:AF:380:ASN:C	17:AF:382:GLU:N	2.74	0.44
18:AC:155:ASP:OD1	18:AC:155:ASP:N	2.51	0.44
18:AC:252:ASP:HB2	18:AC:294:ALA:O	2.18	0.44
18:AC:299:ASP:O	18:AC:303:SER:OG	2.28	0.44
19:AG:70:PHE:CD2	19:AG:91:VAL:HG21	2.52	0.44
20:AH:98:TYR:O	20:AH:102:GLN:N	2.38	0.44
21:AI:35:LEU:CA	21:AI:162:THR:HG21	2.45	0.44
25:AM:98:PHE:CD1	25:AM:106:ILE:HD13	2.52	0.44
27:AO:20:ALA:HB3	27:AO:28:ASP:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:194:LYS:O	31:BS:211:ARG:HD2	2.17	0.44
32:AT:1:THR:N	32:AT:105:PRO:O	2.37	0.44
1:BU:560:MET:HE2	1:BU:589:ALA:O	2.17	0.44
1:BU:630:PRO:HG2	1:BU:663:THR:HG21	2.00	0.44
2:BV:487:HIS:NE2	6:BZ:267:ARG:HD3	2.32	0.44
3:BW:92:LYS:N	3:BW:93:ARG:HB3	2.24	0.44
5:BY:141:VAL:HG13	5:BY:160:ASN:ND2	2.33	0.44
9:Bc:229:LEU:CD2	9:Bc:231:LEU:HB2	2.47	0.44
12:Bf:542:ILE:HG21	12:Bf:558:LEU:HD21	2.00	0.44
12:Bf:819:TYR:CB	12:Bf:822:VAL:HG23	2.48	0.44
14:BB:190:LEU:HD13	14:BB:194:ILE:HB	1.99	0.44
16:BE:159:PHE:HD2	16:BE:166:PRO:HG3	1.83	0.44
17:BF:84:LYS:HA	17:BF:161:LEU:CD2	2.30	0.44
21:BI:204:SER:C	21:BI:206:LEU:H	2.26	0.44
24:BL:85:CYS:O	24:BL:88:MET:HB3	2.16	0.44
28:BP:109:ILE:HB	28:BP:122:CYS:SG	2.57	0.44
28:BP:190:ILE:HG22	28:BP:195:ILE:HG23	1.99	0.44
29:BQ:135:GLY:O	29:BQ:139:THR:HG23	2.17	0.44
29:BQ:148:THR:HG22	29:BQ:150:THR:H	1.82	0.44
30:BR:104:TRP:CD2	30:BR:181:GLU:HA	2.53	0.44
1:AU:388:ASP:OD1	1:AU:389:ASN:N	2.48	0.44
1:AU:560:MET:HE2	1:AU:589:ALA:O	2.17	0.44
2:AV:197:THR:HG22	2:AV:200:ARG:H	1.81	0.44
2:AV:299:GLN:HG3	10:Ad:113:ALA:HB1	2.00	0.44
3:AW:253:THR:HB	3:AW:254:PRO:HD3	2.00	0.44
6:AZ:242:LEU:HA	6:AZ:243:GLN:HA	1.73	0.44
9:Ac:227:GLU:HG2	9:Ac:233:ASP:HB2	1.99	0.44
10:Ad:192:THR:O	10:Ad:196:ARG:HG3	2.18	0.44
12:Af:275:MET:SD	12:Af:300:ARG:HG2	2.58	0.44
12:Af:748:LEU:HA	12:Af:751:TYR:CE2	2.52	0.44
13:AA:74:PRO:HB2	13:AA:75:PRO:HD3	2.00	0.44
13:AA:363:SER:HB2	13:AA:403:ILE:HG22	1.99	0.44
14:AB:224:LEU:HB3	14:AB:234:LEU:HD13	1.98	0.44
14:AB:371:ARG:NH1	18:AC:176:GLU:OE2	2.46	0.44
16:AE:129:ASN:O	16:AE:132:TYR:N	2.43	0.44
16:AE:138:LEU:HD13	16:AE:141:GLN:CD	2.42	0.44
16:AE:159:PHE:HD2	16:AE:166:PRO:HG3	1.83	0.44
16:AE:237:ALA:O	17:AF:304:ARG:NH1	2.51	0.44
17:AF:223:VAL:HG23	17:AF:350:ARG:HB2	1.99	0.44
20:AH:14:SER:OG	20:AH:18:LYS:N	2.51	0.44
21:AI:185:THR:O	21:AI:185:THR:OG1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:195:LYS:NZ	31:BS:180:ILE:C	2.74	0.44
30:AR:6:PHE:HB2	30:AR:125:THR:HG22	1.99	0.44
30:AR:141:ARG:HB2	29:BQ:166:GLU:CG	2.47	0.44
31:AS:55:SER:OG	31:AS:56:GLY:N	2.51	0.44
1:BU:173:VAL:N	1:BU:174:PRO:HD3	2.31	0.44
2:BV:96:ARG:HA	2:BV:98:LEU:HD12	1.99	0.44
6:BZ:233:VAL:O	6:BZ:236:LEU:HB2	2.17	0.44
10:Bd:236:THR:O	10:Bd:239:SER:OG	2.34	0.44
12:Bf:181:ARG:HA	12:Bf:184:LEU:HD12	2.00	0.44
12:Bf:635:LYS:NZ	12:Bf:636:ASP:OD1	2.50	0.44
12:Bf:839:PRO:CG	12:Bf:850:VAL:HG21	2.48	0.44
15:BD:82:ILE:HA	15:BD:83:GLN:HA	1.58	0.44
15:BD:200:ARG:HH12	15:BD:300:ASP:CG	2.26	0.44
15:BD:258:ALA:HB1	15:BD:304:ASN:HB3	2.00	0.44
17:BF:281:SER:HB3	17:BF:326:VAL:HG13	2.00	0.44
18:BC:255:GLY:CA	18:BC:256:SER:HB2	2.48	0.44
1:AU:144:ASP:HB3	18:AC:11:LEU:HD13	2.00	0.44
2:AV:419:LEU:O	2:AV:422:ILE:HG22	2.17	0.44
2:AV:449:ALA:HB1	2:AV:459:GLN:O	2.18	0.44
5:AY:174:TRP:NE1	18:AC:338:LEU:HB3	2.32	0.44
6:AZ:225:GLN:NE2	6:AZ:229:GLN:HB2	2.33	0.44
10:Ad:40:GLY:HA3	10:Ad:41:THR:O	2.18	0.44
12:Af:268:LEU:HA	12:Af:269:ALA:HB3	2.00	0.44
12:Af:356:ASN:CG	12:Af:396:ASN:HD21	2.25	0.44
12:Af:822:VAL:HA	12:Af:823:ALA:HA	1.59	0.44
13:AA:105:ASP:OD1	13:AA:105:ASP:N	2.45	0.44
15:AD:99:ASN:H	15:AD:115:ILE:HD11	1.83	0.44
15:AD:244:PRO:HD3	15:AD:288:ILE:HD11	1.98	0.44
16:AE:254:GLN:O	16:AE:258:MET:HG2	2.17	0.44
17:AF:294:LYS:HZ3	17:AF:340:PRO:HG2	1.82	0.44
18:AC:373:GLU:HG2	18:AC:375:ARG:NH1	2.32	0.44
20:AH:111:VAL:HG21	20:AH:147:PHE:HD2	1.81	0.44
21:AI:76:VAL:HA	21:AI:134:LEU:HB3	1.98	0.44
22:AJ:221:ASN:C	22:AJ:223:GLU:H	2.26	0.44
25:AM:40:ARG:NH1	25:AM:146:ALA:O	2.51	0.44
25:AM:158:TYR:HE1	25:AM:160:TYR:CZ	2.36	0.44
32:AT:24:ALA:HB1	32:AT:41:ARG:NH1	2.32	0.44
3:BW:141:GLU:OE2	15:BD:392:TYR:CD1	2.65	0.44
7:Ba:325:ASP:OD1	7:Ba:327:VAL:HG12	2.18	0.44
8:Bb:11:ASP:OD2	8:Bb:114:GLY:N	2.49	0.44
8:Bb:29:GLN:O	8:Bb:33:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:165:GLU:HG2	12:Bf:167:ALA:H	1.83	0.44
12:Bf:353:LEU:HB3	12:Bf:354:GLU:H	1.41	0.44
12:Bf:559:PRO:HG3	12:Bf:600:TYR:CE1	2.53	0.44
12:Bf:781:TYR:CE1	12:Bf:813:LYS:HD3	2.52	0.44
13:BA:97:ARG:HB3	14:BB:131:HIS:HD2	1.83	0.44
13:BA:143:ASP:O	13:BA:147:TYR:N	2.51	0.44
13:BA:225:CYS:O	13:BA:229:VAL:HG23	2.17	0.44
15:BD:235:PHE:O	15:BD:246:MET:HE1	2.18	0.44
18:BC:255:GLY:H	18:BC:256:SER:HB2	1.82	0.44
19:BG:110:PRO:HB3	27:BO:72:ARG:HH12	1.83	0.44
25:BM:40:ARG:NH1	25:BM:146:ALA:O	2.51	0.44
25:BM:108:LEU:HD22	25:BM:139:SER:HB3	2.00	0.44
28:BP:142:CYS:O	28:BP:146:MET:HE2	2.17	0.44
32:BT:24:ALA:HB1	32:BT:41:ARG:NH1	2.32	0.44
2:AV:286:ALA:HB2	2:AV:315:LYS:HD3	2.00	0.44
5:AY:109:GLU:HG2	5:AY:124:PHE:HE1	1.82	0.44
6:AZ:210:SER:HB2	6:AZ:214:LYS:HZ3	1.83	0.44
7:Aa:270:ARG:O	7:Aa:270:ARG:NH2	2.50	0.44
7:Aa:325:ASP:OD1	7:Aa:327:VAL:HG12	2.18	0.44
8:Ab:12:ASN:OD1	8:Ab:12:ASN:N	2.48	0.44
8:Ab:95:LEU:HA	8:Ab:98:LYS:NZ	2.32	0.44
10:Ad:236:THR:O	10:Ad:239:SER:OG	2.34	0.44
12:Af:265:ALA:HB1	12:Af:266:LEU:CA	2.47	0.44
12:Af:763:ARG:CD	12:Af:808:ASN:HB3	2.48	0.44
13:AA:344:SER:OG	13:AA:344:SER:O	2.28	0.44
14:AB:324:ASP:HA	14:AB:325:VAL:C	2.43	0.44
17:AF:366:MET:HE2	17:AF:366:MET:HB3	1.84	0.44
18:AC:157:GLN:OE1	18:AC:318:PRO:HD3	2.18	0.44
19:AG:38:THR:HA	19:AG:172:GLN:NE2	2.31	0.44
19:AG:110:PRO:HB3	27:AO:72:ARG:HH12	1.83	0.44
19:AG:163:PHE:HD2	19:AG:166:THR:OG1	2.01	0.44
19:AG:197:THR:HA	19:AG:200:THR:OG1	2.18	0.44
20:AH:123:GLN:NE2	21:AI:128:ARG:O	2.51	0.44
21:AI:68:LEU:HD13	21:AI:90:LEU:HD21	2.00	0.44
22:AJ:192:ILE:O	22:AJ:196:LEU:CB	2.65	0.44
25:AM:110:HIS:CE1	26:AN:70:LEU:HA	2.53	0.44
27:AO:187:ARG:HA	27:AO:188:PRO:HA	1.81	0.44
28:AP:149:MET:HE2	31:BS:147:PRO:HB2	1.20	0.44
30:AR:133:VAL:HG21	29:BQ:137:PHE:HB2	2.00	0.44
31:AS:176:LYS:CB	27:BO:199:LEU:CD2	2.93	0.44
5:BY:387:ILE:HA	5:BY:388:ASN:HA	1.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:73:PRO:O	7:Ba:77:VAL:HG23	2.18	0.44
8:Bb:51:LEU:HD11	8:Bb:61:LEU:HB2	2.00	0.44
10:Bd:191:PHE:HA	10:Bd:222:TYR:CE1	2.49	0.44
12:Bf:404:ASP:O	12:Bf:408:LEU:HG	2.18	0.44
13:BA:273:PHE:HD1	13:BA:318:LEU:HB3	1.83	0.44
13:BA:355:PHE:O	13:BA:359:ALA:CB	2.60	0.44
13:BA:363:SER:HB2	13:BA:403:ILE:HG22	1.99	0.44
14:BB:103:ARG:HG2	14:BB:107:MET:CE	2.48	0.44
16:BE:345:ASN:ND2	17:BF:345:SER:CB	2.81	0.44
18:BC:157:GLN:OE1	18:BC:318:PRO:HD3	2.18	0.44
19:BG:116:LYS:HG2	19:BG:160:TYR:CE2	2.52	0.44
24:BL:68:ASN:O	24:BL:220:GLU:HG2	2.18	0.44
1:AU:161:ASP:OD1	1:AU:162:VAL:N	2.51	0.44
1:AU:520:MET:HE2	1:AU:525:ASN:HD22	1.81	0.44
2:AV:27:PRO:O	2:AV:30:PRO:HD2	2.18	0.44
2:AV:30:PRO:HA	2:AV:33:GLN:HB2	2.00	0.44
3:AW:219:THR:HA	3:AW:220:GLU:HB3	2.00	0.44
6:AZ:54:PHE:HB2	6:AZ:78:MET:SD	2.58	0.44
13:AA:194:PRO:HG3	13:AA:201:PHE:HE2	1.83	0.44
14:AB:253:SER:OG	14:AB:257:GLN:OE1	2.32	0.44
15:AD:89:ILE:O	15:AD:106:THR:OG1	2.25	0.44
16:AE:174:GLY:HA2	16:AE:176:PRO:HD2	2.00	0.44
17:AF:172:VAL:HG13	17:AF:267:LEU:HG	2.00	0.44
17:AF:314:LEU:HB3	17:AF:347:ARG:HH11	1.82	0.44
18:AC:139:MET:SD	18:AC:213:ARG:HB2	2.57	0.44
19:AG:48:ALA:HB2	19:AG:149:PRO:HB2	1.99	0.44
19:AG:91:VAL:CG1	19:AG:95:ARG:HE	2.31	0.44
22:AJ:96:LEU:HD11	29:AQ:58:GLU:HB3	1.99	0.44
22:AJ:201:SER:HA	22:AJ:206:ILE:HD11	1.99	0.44
23:AK:104:ASN:OD1	30:AR:57:ARG:NH2	2.51	0.44
27:AO:207:GLY:C	31:BS:159:GLN:HG2	2.42	0.44
28:AP:109:ILE:HB	28:AP:122:CYS:SG	2.57	0.44
28:AP:173:ASN:HA	31:BS:157:ASN:HD21	1.74	0.44
29:AQ:148:THR:HG22	29:AQ:150:THR:H	1.82	0.44
29:AQ:162:LYS:HG2	30:BR:141:ARG:HD2	1.99	0.44
31:AS:27:THR:HB	31:AS:40:SER:H	1.82	0.44
2:BV:27:PRO:O	2:BV:30:PRO:HD2	2.18	0.44
2:BV:30:PRO:HA	2:BV:33:GLN:HB2	2.00	0.44
2:BV:161:PRO:O	2:BV:164:GLU:HB2	2.17	0.44
2:BV:350:GLN:HB3	2:BV:353:LEU:HB3	1.98	0.44
4:BX:378:LEU:HA	4:BX:385:LEU:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BY:57:LEU:HD11	5:BY:62:ASP:HA	2.00	0.44
5:BY:197:ALA:HB3	5:BY:226:VAL:HG21	1.98	0.44
6:BZ:102:HIS:HD2	6:BZ:104:ASN:HB3	1.81	0.44
10:Bd:147:SER:OG	10:Bd:150:LYS:N	2.51	0.44
12:Bf:265:ALA:HB1	12:Bf:266:LEU:CA	2.47	0.44
14:BB:258:LYS:O	14:BB:296:ASP:HB2	2.18	0.44
14:BB:310:LEU:O	14:BB:313:LEU:HB3	2.18	0.44
15:BD:237:GLN:HG3	15:BD:242:GLU:HG2	1.98	0.44
15:BD:239:TYR:HE2	16:BE:75:ASN:O	2.00	0.44
16:BE:147:GLU:O	16:BE:151:LEU:HB3	2.17	0.44
16:BE:180:LYS:HG3	16:BE:181:THR:N	2.29	0.44
18:BC:155:ASP:OD1	18:BC:155:ASP:N	2.51	0.44
18:BC:167:LEU:HD22	18:BC:175:PHE:CE2	2.52	0.44
20:BH:111:VAL:HG21	20:BH:147:PHE:HD2	1.81	0.44
21:BI:3:ARG:H	24:BL:123:TYR:HH	1.65	0.44
21:BI:164:ILE:HA	21:BI:165:GLY:HA2	1.65	0.44
1:AU:710:ARG:HA	1:AU:713:TYR:HD2	1.83	0.44
3:AW:46:THR:O	3:AW:49:SER:OG	2.26	0.44
3:AW:124:LEU:O	3:AW:128:LEU:HD23	2.17	0.44
3:AW:144:ARG:HA	3:AW:147:LYS:HE2	1.99	0.44
3:AW:175:GLY:CA	16:AE:161:ARG:HE	2.31	0.44
5:AY:179:ARG:HE	18:AC:340:ARG:NH2	2.16	0.44
7:Aa:73:PRO:O	7:Aa:77:VAL:HG23	2.17	0.44
12:Af:267:ARG:HE	12:Af:300:ARG:HE	1.66	0.44
12:Af:621:ASP:OD2	12:Af:623:LYS:HB3	2.18	0.44
15:AD:388:ARG:HH22	16:AE:144:GLU:HA	1.83	0.44
16:AE:281:ARG:HD3	16:AE:387:LYS:HZ1	1.82	0.44
18:AC:194:THR:HG21	18:AC:357:ALA:HB2	2.00	0.44
18:AC:307:ARG:O	18:AC:309:GLY:N	2.50	0.44
24:AL:184:LEU:H	24:AL:184:LEU:HD12	1.82	0.44
29:AQ:65:GLN:O	29:AQ:69:MET:HG2	2.18	0.44
30:AR:104:TRP:CD2	30:AR:181:GLU:HA	2.53	0.44
1:BU:172:ASP:HA	1:BU:173:VAL:HB	2.00	0.44
2:BV:80:LYS:HA	2:BV:81:GLN:HB2	2.00	0.44
2:BV:289:LEU:HA	2:BV:292:THR:HG22	2.00	0.44
2:BV:455:LYS:H	2:BV:456:GLY:HA2	1.81	0.44
4:BX:306:LEU:HD11	4:BX:313:LEU:HG	2.00	0.44
6:BZ:225:GLN:NE2	6:BZ:229:GLN:HB2	2.33	0.44
10:Bd:160:ALA:HB3	10:Bd:161:GLU:HA	2.00	0.44
12:Bf:366:ASP:OD2	12:Bf:376:PHE:HD2	2.01	0.44
14:BB:324:ASP:HA	14:BB:325:VAL:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BB:371:ARG:NH1	18:BC:176:GLU:OE2	2.46	0.44
15:BD:172:ILE:HG13	15:BD:173:GLN:H	1.83	0.44
15:BD:371:SER:HA	15:BD:372:GLY:HA3	1.71	0.44
16:BE:174:GLY:H	16:BE:180:LYS:HZ1	1.65	0.44
17:BF:97:LEU:HD22	17:BF:120:LYS:HE2	1.99	0.44
18:BC:69:GLN:NE2	18:BC:72:TYR:OH	2.51	0.44
18:BC:260:GLU:O	18:BC:263:SER:OG	2.26	0.44
18:BC:365:GLU:HA	18:BC:368:MET:HG2	1.99	0.44
19:BG:210:PHE:CE1	19:BG:214:GLU:HB2	2.53	0.44
20:BH:123:GLN:HG3	21:BI:128:ARG:HB3	2.00	0.44
24:BL:43:HIS:HA	24:BL:137:TYR:OH	2.18	0.44
27:BO:216:ILE:HD13	28:BP:196:THR:HG23	2.00	0.44
29:BQ:140:LEU:O	29:BQ:144:ASP:HB3	2.18	0.44
2:AV:100:MET:HG2	2:AV:102:PRO:HD2	1.99	0.43
2:AV:263:LEU:C	2:AV:265:ASP:H	2.26	0.43
4:AX:173:GLU:O	4:AX:176:THR:HG22	2.17	0.43
4:AX:195:THR:HG21	18:AC:384:GLU:OE2	2.18	0.43
4:AX:360:ASP:HA	4:AX:363:ARG:NE	2.33	0.43
6:AZ:8:LYS:HG3	6:AZ:47:VAL:HG23	2.00	0.43
6:AZ:224:HIS:CB	6:AZ:225:GLN:HA	2.35	0.43
12:Af:366:ASP:OD2	12:Af:376:PHE:HD2	2.01	0.43
12:Af:389:LYS:O	12:Af:393:ASP:CB	2.50	0.43
12:Af:542:ILE:HD11	12:Af:549:GLU:CD	2.43	0.43
12:Af:781:TYR:CE1	12:Af:813:LYS:HD3	2.52	0.43
12:Af:785:ARG:O	12:Af:789:SER:CB	2.65	0.43
14:AB:260:LEU:HD12	14:AB:260:LEU:O	2.17	0.43
15:AD:117:SER:H	18:AC:59:LEU:HD11	1.83	0.43
16:AE:140:GLU:O	16:AE:144:GLU:HB2	2.18	0.43
16:AE:210:GLU:O	16:AE:213:ARG:HG2	2.18	0.43
18:AC:338:LEU:HA	18:AC:378:VAL:H	1.83	0.43
20:AH:44:VAL:HB	20:AH:213:CYS:HB2	1.99	0.43
24:AL:43:HIS:HA	24:AL:137:TYR:OH	2.18	0.43
24:AL:65:HIS:O	24:AL:89:ARG:NH1	2.51	0.43
28:AP:177:ARG:HG3	30:BR:26:ILE:CB	2.45	0.43
29:AQ:162:LYS:HA	30:BR:141:ARG:NH1	2.25	0.43
32:AT:43:MET:HE2	32:AT:51:LEU:HD23	2.00	0.43
1:BU:161:ASP:OD1	1:BU:162:VAL:N	2.51	0.43
1:BU:520:MET:HE2	1:BU:525:ASN:HD22	1.81	0.43
2:BV:286:ALA:HB2	2:BV:315:LYS:HD3	2.00	0.43
3:BW:124:LEU:HA	3:BW:127:THR:HG22	1.99	0.43
3:BW:237:GLU:HG2	3:BW:238:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BW:324:TYR:O	3:BW:327:GLU:HG2	2.18	0.43
5:BY:179:ARG:HE	18:BC:340:ARG:NH2	2.16	0.43
5:BY:328:GLU:O	5:BY:331:ASP:HB3	2.18	0.43
10:Bd:52:ARG:HG2	10:Bd:81:TYR:CD2	2.53	0.43
12:Bf:275:MET:SD	12:Bf:300:ARG:HG2	2.58	0.43
12:Bf:629:LYS:HG3	12:Bf:632:LYS:HE3	2.00	0.43
12:Bf:748:LEU:HA	12:Bf:751:TYR:CE2	2.52	0.43
12:Bf:815:HIS:C	12:Bf:817:VAL:H	2.24	0.43
13:BA:74:PRO:HB2	13:BA:75:PRO:HD3	2.00	0.43
15:BD:81:ARG:HG2	15:BD:82:ILE:HD12	1.99	0.43
15:BD:117:SER:H	18:BC:59:LEU:HD11	1.83	0.43
16:BE:134:GLU:HB3	16:BE:315:ILE:HD13	2.00	0.43
16:BE:138:LEU:HD23	16:BE:139:SER:N	2.32	0.43
17:BF:97:LEU:HD13	17:BF:120:LYS:CB	2.48	0.43
21:BI:108:GLU:O	21:BI:112:THR:HG23	2.17	0.43
25:BM:36:ALA:HB1	25:BM:49:VAL:HG22	2.00	0.43
25:BM:119:VAL:O	25:BM:123:THR:HG23	2.18	0.43
2:AV:80:LYS:HA	2:AV:81:GLN:HB2	2.00	0.43
10:Ad:52:ARG:HG2	10:Ad:81:TYR:CD2	2.53	0.43
10:Ad:147:SER:OG	10:Ad:150:LYS:N	2.51	0.43
10:Ad:168:ASP:O	10:Ad:171:LEU:HB2	2.17	0.43
10:Ad:256:ILE:N	10:Ad:257:VAL:HA	2.33	0.43
12:Af:257:ARG:O	12:Af:261:ARG:NH2	2.51	0.43
12:Af:401:LYS:O	12:Af:403:LYS:N	2.48	0.43
13:AA:347:ASP:O	13:AA:351:ARG:HG3	2.17	0.43
14:AB:133:VAL:HG11	14:AB:158:ALA:HA	2.00	0.43
14:AB:193:GLN:HG2	14:AB:237:LYS:NZ	2.32	0.43
14:AB:319:PHE:HA	14:AB:320:ASP:HA	1.76	0.43
16:AE:145:LEU:HD11	16:AE:172:LEU:HD21	1.99	0.43
18:AC:69:GLN:NE2	18:AC:72:TYR:OH	2.51	0.43
18:AC:255:GLY:H	18:AC:256:SER:HB2	1.82	0.43
24:AL:166:GLN:HA	24:AL:169:ARG:HH11	1.82	0.43
27:AO:144:PRO:HB3	32:BT:214:MET:HE1	1.99	0.43
27:AO:216:ILE:HD13	28:AP:196:THR:HG23	2.00	0.43
28:AP:66:ARG:O	28:AP:69:PHE:HB3	2.18	0.43
28:AP:74:TYR:CE2	28:AP:82:ILE:HG13	2.53	0.43
28:AP:177:ARG:HD3	30:BR:26:ILE:CB	2.48	0.43
2:BV:279:GLN:NE2	2:BV:285:TRP:CD1	2.85	0.43
2:BV:363:LEU:HA	2:BV:378:VAL:HG11	1.99	0.43
3:BW:87:ILE:O	3:BW:88:MET:HB2	2.18	0.43
3:BW:366:MET:SD	3:BW:378:MET:HE2	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BZ:54:PHE:HB2	6:BZ:78:MET:SD	2.58	0.43
6:BZ:63:LYS:H	6:BZ:64:ASP:HB2	1.83	0.43
6:BZ:261:TYR:C	6:BZ:265:LEU:CD1	2.65	0.43
7:Ba:293:PHE:HB3	7:Ba:329:LYS:O	2.18	0.43
9:Bc:227:GLU:HG2	9:Bc:233:ASP:HB2	1.99	0.43
12:Bf:257:ARG:O	12:Bf:261:ARG:NH2	2.51	0.43
12:Bf:486:GLY:O	12:Bf:490:ALA:CB	2.66	0.43
15:BD:83:GLN:H	15:BD:83:GLN:HG2	1.69	0.43
15:BD:207:PRO:HG2	15:BD:312:ASN:HA	2.01	0.43
16:BE:140:GLU:O	16:BE:144:GLU:HB2	2.18	0.43
16:BE:145:LEU:HD11	16:BE:172:LEU:HD21	1.99	0.43
16:BE:237:ALA:O	17:BF:304:ARG:NH1	2.51	0.43
17:BF:318:ASP:HB2	17:BF:347:ARG:NH1	2.34	0.43
18:BC:84:LYS:HB3	18:BC:96:VAL:HG22	1.98	0.43
19:BG:77:GLY:H	19:BG:141:ILE:CD1	2.31	0.43
25:BM:110:HIS:CE1	26:BN:70:LEU:HA	2.53	0.43
25:BM:200:VAL:HG22	25:BM:201:HIS:H	1.83	0.43
27:BO:20:ALA:O	27:BO:27:ALA:HB3	2.17	0.43
1:AU:250:PHE:HA	1:AU:253:TYR:HB3	2.00	0.43
3:AW:70:VAL:O	3:AW:73:MET:HG2	2.19	0.43
4:AX:378:LEU:HA	4:AX:385:LEU:HA	2.00	0.43
5:AY:57:LEU:HD11	5:AY:62:ASP:HA	2.00	0.43
6:AZ:63:LYS:H	6:AZ:64:ASP:HB2	1.83	0.43
6:AZ:118:ASN:OD1	6:AZ:118:ASN:N	2.50	0.43
12:Af:181:ARG:HA	12:Af:184:LEU:HD12	2.00	0.43
12:Af:414:LEU:O	12:Af:418:LEU:CB	2.67	0.43
12:Af:541:THR:O	12:Af:545:LYS:NZ	2.51	0.43
12:Af:839:PRO:CG	12:Af:850:VAL:HG21	2.47	0.43
13:AA:410:LEU:O	13:AA:414:ASN:ND2	2.50	0.43
15:AD:258:ALA:HB1	15:AD:304:ASN:HB3	2.00	0.43
16:AE:287:PRO:HA	16:AE:290:LEU:HB2	1.99	0.43
16:AE:307:GLN:O	16:AE:310:LEU:HB3	2.18	0.43
16:AE:331:ILE:HD12	16:AE:371:VAL:HG11	1.99	0.43
18:AC:124:HIS:ND1	18:AC:125:LYS:HG2	2.34	0.43
18:AC:137:LEU:O	18:AC:140:VAL:HG12	2.19	0.43
18:AC:250:GLU:O	18:AC:251:ILE:HG22	2.19	0.43
21:AI:108:GLU:O	21:AI:112:THR:HG23	2.18	0.43
22:AJ:115:LYS:HE3	22:AJ:127:PHE:HB2	2.00	0.43
25:AM:200:VAL:HG22	25:AM:201:HIS:H	1.83	0.43
27:AO:135:MET:CG	32:BT:179:ARG:CD	2.86	0.43
28:AP:142:CYS:O	28:AP:146:MET:HE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AP:173:ASN:CG	31:BS:157:ASN:HB2	2.44	0.43
30:AR:141:ARG:HD2	29:BQ:162:LYS:HG2	2.01	0.43
32:AT:19:GLY:N	32:AT:120:SER:OG	2.51	0.43
32:AT:214:MET:HE1	27:BO:144:PRO:HB3	1.99	0.43
1:BU:28:ASN:HD22	1:BU:59:PHE:HZ	1.65	0.43
5:BY:138:LEU:HD12	5:BY:141:VAL:HB	2.01	0.43
10:Bd:40:GLY:HA3	10:Bd:41:THR:O	2.18	0.43
12:Bf:349:TYR:CE2	12:Bf:827:PRO:HB3	2.53	0.43
12:Bf:414:LEU:O	12:Bf:418:LEU:CB	2.67	0.43
12:Bf:414:LEU:O	12:Bf:418:LEU:HB2	2.17	0.43
12:Bf:769:THR:HG23	12:Bf:770:HIS:CD2	2.53	0.43
13:BA:325:ASP:HB2	13:BA:326:THR:HA	1.99	0.43
15:BD:377:SER:O	15:BD:381:GLU:HG2	2.19	0.43
20:BH:14:SER:OG	20:BH:18:LYS:N	2.51	0.43
20:BH:123:GLN:NE2	21:BI:128:ARG:O	2.51	0.43
22:BJ:115:LYS:HE3	22:BJ:127:PHE:HB2	2.00	0.43
23:BK:199:LEU:HA	23:BK:202:LEU:HB2	2.00	0.43
24:BL:193:ARG:HA	24:BL:196:ARG:CD	2.48	0.43
25:BM:201:HIS:CE1	25:BM:206:ASP:HB2	2.53	0.43
29:BQ:65:GLN:O	29:BQ:69:MET:HG2	2.18	0.43
31:BS:55:SER:OG	31:BS:56:GLY:N	2.51	0.43
1:AU:474:ARG:HE	1:AU:500:ASN:CG	2.26	0.43
2:AV:246:GLY:O	2:AV:249:THR:OG1	2.29	0.43
3:AW:333:LEU:HD12	3:AW:333:LEU:O	2.17	0.43
4:AX:306:LEU:HD11	4:AX:313:LEU:HG	2.00	0.43
12:Af:349:TYR:CE2	12:Af:827:PRO:HB3	2.53	0.43
12:Af:769:THR:HG23	12:Af:770:HIS:CD2	2.53	0.43
16:AE:238:ILE:O	16:AE:257:LEU:HD11	2.18	0.43
16:AE:345:ASN:ND2	17:AF:345:SER:CB	2.81	0.43
19:AG:77:GLY:H	19:AG:141:ILE:CD1	2.31	0.43
23:AK:73:HIS:HA	23:AK:226:PHE:CE1	2.53	0.43
29:AQ:172:ILE:O	29:BQ:172:ILE:O	2.36	0.43
30:AR:134:TYR:O	29:BQ:141:SER:CB	2.67	0.43
31:AS:148:LEU:HD23	31:AS:178:VAL:HG12	2.00	0.43
1:BU:471:ASP:OD1	1:BU:471:ASP:N	2.46	0.43
2:BV:244:ALA:C	2:BV:246:GLY:H	2.26	0.43
2:BV:299:GLN:HG3	10:Bd:113:ALA:HB1	2.00	0.43
2:BV:344:ASP:HB3	11:Be:43:TRP:NE1	2.33	0.43
3:BW:122:LEU:HA	3:BW:125:ILE:HG22	2.01	0.43
4:BX:142:ARG:HD3	4:BX:145:GLU:HG3	1.99	0.43
5:BY:212:GLU:H	5:BY:212:GLU:HG2	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bd:135:HIS:HB3	10:Bd:136:PRO:HD3	2.00	0.43
10:Bd:192:THR:O	10:Bd:196:ARG:HG3	2.18	0.43
10:Bd:213:ARG:C	10:Bd:215:TRP:HB3	2.43	0.43
12:Bf:763:ARG:CD	12:Bf:808:ASN:HB3	2.48	0.43
13:BA:297:ARG:O	13:BA:301:GLU:HB3	2.18	0.43
13:BA:299:MET:O	13:BA:302:LEU:HB3	2.19	0.43
15:BD:231:VAL:HG13	16:BE:262:ASN:HD22	1.84	0.43
16:BE:238:ILE:O	16:BE:257:LEU:HD11	2.18	0.43
18:BC:228:ALA:O	18:BC:230:MET:HG2	2.18	0.43
19:BG:91:VAL:CG1	19:BG:95:ARG:HE	2.31	0.43
20:BH:161:THR:OG1	20:BH:162:ALA:N	2.51	0.43
24:BL:166:GLN:HA	24:BL:169:ARG:HH11	1.82	0.43
28:BP:191:GLU:HG2	28:BP:194:LYS:O	2.18	0.43
29:BQ:46:CYS:HA	29:BQ:102:LEU:HB2	2.00	0.43
32:BT:43:MET:HE2	32:BT:51:LEU:HD23	2.00	0.43
2:AV:82:LEU:C	2:AV:84:LYS:H	2.27	0.43
2:AV:344:ASP:O	11:Ae:43:TRP:NE1	2.46	0.43
3:AW:122:LEU:HA	3:AW:125:ILE:HG22	2.01	0.43
3:AW:175:GLY:HA2	16:AE:161:ARG:HE	1.83	0.43
3:AW:237:GLU:HG2	3:AW:238:GLY:H	1.83	0.43
5:AY:42:MET:HE3	5:AY:46:ARG:HH12	1.84	0.43
7:Aa:339:ARG:HD3	7:Aa:339:ARG:HA	1.75	0.43
10:Ad:135:HIS:HB3	10:Ad:136:PRO:HD3	2.00	0.43
10:Ad:160:ALA:H	10:Ad:161:GLU:HA	1.81	0.43
12:Af:486:GLY:O	12:Af:490:ALA:CB	2.66	0.43
12:Af:608:LYS:O	12:Af:612:LEU:HG	2.18	0.43
12:Af:629:LYS:HG3	12:Af:632:LYS:HE3	2.00	0.43
12:Af:819:TYR:CB	12:Af:822:VAL:HG23	2.48	0.43
13:AA:355:PHE:CE1	13:AA:385:ILE:HB	2.54	0.43
14:AB:258:LYS:O	14:AB:296:ASP:HB2	2.18	0.43
14:AB:298:ASN:OD1	14:AB:298:ASN:N	2.49	0.43
20:AH:225:GLU:HA	20:AH:228:ASP:HB2	2.00	0.43
21:AI:22:GLU:O	21:AI:26:GLU:HG2	2.19	0.43
22:AJ:7:ILE:HD11	22:AJ:123:GLY:HA2	2.00	0.43
25:AM:119:VAL:O	25:AM:123:THR:HG23	2.18	0.43
29:AQ:137:PHE:HB2	30:BR:133:VAL:HG21	1.99	0.43
31:AS:180:ILE:C	27:BO:195:LYS:NZ	2.74	0.43
32:AT:178:TYR:OH	32:AT:208:ASN:O	2.28	0.43
1:BU:707:ASN:O	1:BU:711:GLN:HG2	2.17	0.43
1:BU:772:TRP:HB3	1:BU:775:LEU:HG	2.01	0.43
5:BY:174:TRP:CD1	18:BC:338:LEU:HB3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BY:377:LEU:O	5:BY:381:GLN:HG3	2.17	0.43
7:Ba:173:TYR:HE2	7:Ba:216:LEU:HD22	1.84	0.43
9:Bc:156:VAL:CG1	9:Bc:157:ILE:H	2.30	0.43
12:Bf:211:ILE:O	12:Bf:215:ASP:CB	2.62	0.43
12:Bf:541:THR:O	12:Bf:545:LYS:NZ	2.51	0.43
14:BB:133:VAL:HG11	14:BB:158:ALA:HA	2.00	0.43
15:BD:99:ASN:H	15:BD:115:ILE:HD11	1.83	0.43
15:BD:116:LEU:HD12	15:BD:140:VAL:HG22	2.01	0.43
15:BD:231:VAL:HB	15:BD:234:GLU:HB3	2.00	0.43
16:BE:309:ARG:HH12	16:BE:338:PHE:HB2	1.84	0.43
23:BK:73:HIS:HA	23:BK:226:PHE:CE1	2.53	0.43
24:BL:22:ILE:HG21	24:BL:150:SER:HB3	2.01	0.43
25:BM:158:TYR:HE1	25:BM:160:TYR:CZ	2.36	0.43
1:AU:172:ASP:HA	1:AU:173:VAL:HB	2.00	0.43
2:AV:487:HIS:NE2	6:AZ:267:ARG:HD3	2.32	0.43
5:AY:177:ARG:NH2	18:AC:337:ASN:OD1	2.45	0.43
11:Ae:40:GLU:N	11:Ae:41:ASP:HA	2.31	0.43
12:Af:165:GLU:HG2	12:Af:167:ALA:H	1.83	0.43
12:Af:170:TRP:HA	12:Af:171:GLN:HA	1.76	0.43
12:Af:530:CYS:O	12:Af:531:ASN:HB2	2.17	0.43
13:AA:273:PHE:HD1	13:AA:318:LEU:HB3	1.83	0.43
14:AB:258:LYS:HE3	14:AB:258:LYS:HB3	1.81	0.43
15:AD:81:ARG:HD3	15:AD:82:ILE:CD1	2.48	0.43
15:AD:100:THR:HA	15:AD:114:ARG:HA	2.00	0.43
15:AD:231:VAL:HB	15:AD:234:GLU:HB3	2.00	0.43
15:AD:235:PHE:O	15:AD:246:MET:HE1	2.18	0.43
16:AE:309:ARG:HH12	16:AE:338:PHE:HB2	1.84	0.43
17:AF:165:PRO:HB2	17:AF:166:THR:OG1	2.19	0.43
17:AF:421:MET:HA	17:AF:424:ILE:HD12	2.00	0.43
18:AC:168:PRO:HG2	18:AC:290:LYS:HE3	2.01	0.43
21:AI:204:SER:C	21:AI:206:LEU:H	2.26	0.43
24:AL:137:TYR:HE2	24:AL:215:VAL:HG13	1.82	0.43
25:AM:152:ASP:OD2	25:AM:154:SER:OG	2.37	0.43
25:AM:173:LYS:HA	25:AM:176:ILE:HD12	2.01	0.43
28:AP:175:VAL:HG11	28:AP:182:GLY:HA2	2.00	0.43
29:AQ:141:SER:CB	30:BR:134:TYR:O	2.65	0.43
32:AT:179:ARG:N	26:BN:26:ILE:HD13	2.03	0.43
1:BU:144:ASP:HB3	18:BC:11:LEU:HD13	2.00	0.43
2:BV:82:LEU:C	2:BV:84:LYS:H	2.27	0.43
4:BX:195:THR:HG21	18:BC:384:GLU:OE2	2.18	0.43
6:BZ:224:HIS:CB	6:BZ:225:GLN:HA	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:73:PRO:HG2	7:Ba:113:LEU:HD21	1.99	0.43
7:Ba:333:MET:HE2	7:Ba:333:MET:HA	2.01	0.43
8:Bb:140:ILE:HB	8:Bb:170:LEU:HD13	1.99	0.43
9:Bc:104:ARG:HB3	9:Bc:106:GLU:OE1	2.17	0.43
9:Bc:128:ASN:O	9:Bc:131:GLN:NE2	2.51	0.43
12:Bf:267:ARG:HE	12:Bf:300:ARG:HE	1.66	0.43
12:Bf:542:ILE:HD11	12:Bf:549:GLU:CD	2.43	0.43
12:Bf:619:HIS:HB3	12:Bf:620:PHE:H	1.38	0.43
13:BA:126:SER:N	13:BA:149:ILE:O	2.43	0.43
14:BB:343:ARG:HB2	14:BB:344:PRO:HD3	1.99	0.43
15:BD:81:ARG:HD3	15:BD:82:ILE:CD1	2.48	0.43
15:BD:279:THR:O	15:BD:282:ASP:HB3	2.19	0.43
15:BD:391:ARG:NH2	15:BD:393:ILE:O	2.44	0.43
18:BC:250:GLU:O	18:BC:251:ILE:HG22	2.19	0.43
18:BC:285:ALA:HA	18:BC:286:THR:HA	1.82	0.43
19:BG:163:PHE:HD2	19:BG:166:THR:OG1	2.01	0.43
24:BL:65:HIS:O	24:BL:89:ARG:NH1	2.51	0.43
24:BL:92:CYS:O	24:BL:96:ARG:HB2	2.19	0.43
24:BL:184:LEU:H	24:BL:184:LEU:HD12	1.82	0.43
1:AU:630:PRO:HG2	1:AU:663:THR:HG21	2.00	0.43
3:AW:55:ARG:NH1	3:AW:79:GLU:HG3	2.31	0.43
3:AW:124:LEU:HA	3:AW:127:THR:HG22	1.99	0.43
7:Aa:173:TYR:HE2	7:Aa:216:LEU:HD22	1.84	0.43
8:Ab:51:LEU:HD11	8:Ab:61:LEU:HB2	2.00	0.43
9:Ac:33:ILE:HD11	9:Ac:207:TYR:CD1	2.54	0.43
12:Af:613:LEU:O	12:Af:617:SER:CB	2.67	0.43
12:Af:631:LYS:O	12:Af:634:LYS:HB3	2.18	0.43
17:AF:76:ASN:HD22	17:AF:76:ASN:C	2.25	0.43
17:AF:229:PRO:HA	17:AF:230:GLY:HA2	1.55	0.43
23:AK:199:LEU:HA	23:AK:202:LEU:HB2	2.00	0.43
24:AL:65:HIS:CD2	24:AL:221:PHE:HD2	2.37	0.43
24:AL:68:ASN:O	24:AL:220:GLU:HG2	2.18	0.43
25:AM:201:HIS:CE1	25:AM:206:ASP:HB2	2.53	0.43
31:AS:180:ILE:HG21	27:BO:195:LYS:HG2	1.99	0.43
1:BU:356:THR:HG22	1:BU:717:ILE:HG21	2.01	0.43
2:BV:182:LYS:HE3	2:BV:182:LYS:HB3	1.83	0.43
3:BW:219:THR:HA	3:BW:220:GLU:HB3	2.00	0.43
4:BX:74:ARG:HH22	4:BX:116:TRP:HB2	1.84	0.43
7:Ba:259:PRO:C	7:Ba:261:LEU:H	2.27	0.43
10:Bd:256:ILE:N	10:Bd:257:VAL:HA	2.33	0.43
12:Bf:356:ASN:CG	12:Bf:396:ASN:HD21	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:367:SER:HA	12:Bf:368:ALA:HA	1.73	0.43
19:BG:28:ALA:O	19:BG:31:ALA:N	2.52	0.43
23:BK:104:ASN:OD1	30:BR:57:ARG:NH2	2.51	0.43
32:BT:19:GLY:N	32:BT:120:SER:OG	2.51	0.43
2:AV:254:LEU:HG	2:AV:258:TYR:HD2	1.84	0.43
2:AV:344:ASP:HB3	11:Ae:43:TRP:NE1	2.33	0.43
3:AW:324:TYR:O	3:AW:327:GLU:HG2	2.18	0.43
6:AZ:33:LYS:HE3	6:AZ:33:LYS:HB3	1.88	0.43
12:Af:538:ILE:CG2	12:Af:558:LEU:HD11	2.49	0.43
12:Af:559:PRO:HG3	12:Af:600:TYR:CE1	2.53	0.43
13:AA:112:ILE:HB	13:AA:122:VAL:HG22	2.01	0.43
13:AA:210:LYS:HB2	13:AA:336:ARG:O	2.19	0.43
13:AA:299:MET:O	13:AA:302:LEU:HB3	2.19	0.43
14:AB:103:ARG:HG2	14:AB:107:MET:CE	2.48	0.43
14:AB:170:LEU:HD21	14:AB:270:LEU:HD23	1.99	0.43
14:AB:411:ARG:NH2	14:AB:415:THR:HG23	2.34	0.43
15:AD:231:VAL:HG13	16:AE:262:ASN:HD22	1.84	0.43
15:AD:377:SER:O	15:AD:381:GLU:HG2	2.19	0.43
18:AC:228:ALA:O	18:AC:230:MET:HG2	2.18	0.43
19:AG:27:TYR:HD1	19:AG:30:LYS:HE2	1.83	0.43
20:AH:71:HIS:CE1	20:AH:104:PRO:HB3	2.54	0.43
24:AL:193:ARG:HA	24:AL:196:ARG:CD	2.48	0.43
25:AM:40:ARG:HH21	25:AM:161:TRP:NE1	2.17	0.43
27:AO:36:PHE:HA	27:AO:42:TYR:CD1	2.54	0.43
27:AO:181:ASN:OD1	27:AO:182:LYS:N	2.50	0.43
1:BU:218:GLN:O	1:BU:221:ILE:HG13	2.18	0.43
1:BU:710:ARG:HA	1:BU:713:TYR:HD2	1.83	0.43
2:BV:254:LEU:HG	2:BV:258:TYR:HD2	1.84	0.43
3:BW:55:ARG:NH1	3:BW:75:TYR:O	2.52	0.43
3:BW:425:LEU:O	3:BW:429:SER:OG	2.32	0.43
5:BY:51:ALA:HA	5:BY:54:TYR:HD2	1.84	0.43
9:Bc:161:ARG:NH1	9:Bc:162:LEU:O	2.52	0.43
9:Bc:273:LYS:HB2	9:Bc:277:LYS:HE2	2.01	0.43
13:BA:355:PHE:CE1	13:BA:385:ILE:HB	2.54	0.43
14:BB:229:GLY:HA3	18:BC:308:PRO:HG3	2.01	0.43
15:BD:154:LEU:HD11	15:BD:157:ASP:OD2	2.19	0.43
15:BD:177:VAL:O	15:BD:181:VAL:HB	2.19	0.43
16:BE:211:SER:O	16:BE:215:ILE:HG12	2.19	0.43
17:BF:165:PRO:HB2	17:BF:166:THR:OG1	2.19	0.43
18:BC:203:VAL:O	18:BC:207:THR:OG1	2.28	0.43
18:BC:310:ARG:HA	18:BC:311:ILE:HA	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BH:4:ARG:NH2	25:BM:127:ALA:H	2.17	0.43
23:BK:146:VAL:HG11	23:BK:222:PRO:HA	2.01	0.43
31:BS:148:LEU:HD23	31:BS:178:VAL:HG12	2.00	0.43
1:AU:92:ASP:HA	1:AU:97:VAL:HG21	2.01	0.43
1:AU:218:GLN:O	1:AU:221:ILE:HG13	2.18	0.43
1:AU:401:LYS:HE2	1:AU:401:LYS:HB2	1.71	0.43
2:AV:79:VAL:HG12	2:AV:161:PRO:HB2	2.01	0.43
2:AV:244:ALA:C	2:AV:246:GLY:H	2.26	0.43
5:AY:51:ALA:HA	5:AY:54:TYR:HD2	1.84	0.43
5:AY:293:ARG:HH22	11:Ae:53:SER:HA	1.84	0.43
6:AZ:134:PRO:HG3	9:Ac:220:LEU:CD1	2.49	0.43
7:Aa:78:GLU:O	7:Aa:82:HIS:ND1	2.36	0.43
10:Ad:45:LYS:HG2	10:Ad:48:LEU:HD12	1.99	0.43
12:Af:734:SER:OG	12:Af:771:LEU:HD11	2.19	0.43
13:AA:97:ARG:HB3	14:AB:131:HIS:HD2	1.83	0.43
15:AD:207:PRO:HG2	15:AD:312:ASN:HA	2.01	0.43
18:AC:249:ASP:HA	18:AC:250:GLU:HA	1.63	0.43
18:AC:343:ASN:HB3	18:AC:346:LYS:HG2	1.99	0.43
19:AG:18:PRO:HA	20:AH:24:TYR:CZ	2.54	0.43
20:AH:191:ALA:HA	20:AH:194:THR:HG22	2.01	0.43
25:AM:229:LYS:NZ	25:AM:235:ALA:H	2.17	0.43
29:AQ:91:CYS:SG	29:AQ:97:PRO:HA	2.59	0.43
31:AS:157:ASN:HB3	28:BP:172:LEU:HB3	2.00	0.43
32:AT:4:PRO:HG3	32:AT:107:TRP:CD1	2.54	0.43
1:BU:92:ASP:HA	1:BU:97:VAL:HG21	2.01	0.43
3:BW:175:GLY:CA	16:BE:161:ARG:HE	2.31	0.43
5:BY:42:MET:HE3	5:BY:46:ARG:HH12	1.84	0.43
8:Bb:140:ILE:O	8:Bb:170:LEU:HA	2.18	0.43
9:Bc:275:VAL:HG13	9:Bc:276:GLY:N	2.34	0.43
12:Bf:268:LEU:HB2	12:Bf:300:ARG:HH22	1.84	0.43
12:Bf:268:LEU:HA	12:Bf:269:ALA:HB3	2.00	0.43
12:Bf:538:ILE:CG2	12:Bf:558:LEU:HD11	2.49	0.43
12:Bf:774:GLY:HA3	12:Bf:775:THR:HA	1.85	0.43
18:BC:169:VAL:HG21	18:BC:207:THR:HG21	2.01	0.43
18:BC:194:THR:O	18:BC:317:PHE:HZ	2.02	0.43
18:BC:252:ASP:HB2	18:BC:294:ALA:O	2.18	0.43
20:BH:71:HIS:CE1	20:BH:104:PRO:HB3	2.54	0.43
21:BI:127:LYS:HE3	21:BI:127:LYS:HB3	1.87	0.43
22:BJ:7:ILE:HD11	22:BJ:123:GLY:HA2	2.00	0.43
22:BJ:65:LEU:O	29:BQ:69:MET:HE2	2.19	0.43
22:BJ:221:ASN:C	22:BJ:223:GLU:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:92:LYS:N	3:AW:93:ARG:HB3	2.23	0.43
5:AY:141:VAL:HG13	5:AY:160:ASN:ND2	2.33	0.43
5:AY:286:TRP:O	5:AY:287:LEU:HG	2.19	0.43
9:Ac:163:ILE:HG22	9:Ac:199:HIS:C	2.44	0.43
12:Af:282:PHE:CE2	12:Af:286:LYS:HD3	2.54	0.43
12:Af:323:ASN:N	12:Af:323:ASN:OD1	2.52	0.43
13:AA:191:VAL:HG23	13:AA:271:LEU:HD21	2.00	0.43
17:AF:226:TYR:HA	17:AF:332:THR:O	2.19	0.43
21:AI:76:VAL:HG21	21:AI:83:ALA:CB	2.49	0.43
22:AJ:65:LEU:O	29:AQ:69:MET:HE2	2.19	0.43
22:AJ:118:TYR:HD1	22:AJ:124:ARG:HH21	1.67	0.43
29:AQ:46:CYS:HA	29:AQ:102:LEU:HB2	2.00	0.43
29:AQ:86:ARG:HD3	29:AQ:86:ARG:HA	1.85	0.43
1:BU:757:MET:HG3	1:BU:758:PRO:HD3	1.99	0.43
2:BV:171:VAL:O	2:BV:175:MET:HG3	2.19	0.43
3:BW:449:GLU:O	3:BW:453:HIS:ND1	2.44	0.43
8:Bb:20:ASP:CG	8:Bb:25:ARG:HE	2.25	0.43
9:Bc:154:LYS:NZ	15:BD:81:ARG:HH12	1.95	0.43
9:Bc:172:HIS:C	9:Bc:174:PRO:HD3	2.44	0.43
9:Bc:278:GLN:HA	9:Bc:279:ASP:CB	2.48	0.43
11:Be:1:MET:HB3	11:Be:3:GLU:H	1.84	0.43
12:Bf:479:LEU:HD21	12:Bf:852:VAL:HG23	2.01	0.43
12:Bf:642:ALA:HB3	12:Bf:643:PRO:HD3	2.00	0.43
13:BA:191:VAL:HG23	13:BA:271:LEU:HD21	2.00	0.43
14:BB:383:LEU:C	14:BB:387:LYS:HZ3	2.27	0.43
15:BD:117:SER:H	18:BC:59:LEU:CD1	2.32	0.43
15:BD:149:SER:OG	15:BD:150:SER:N	2.50	0.43
16:BE:174:GLY:HA2	16:BE:176:PRO:HD2	2.00	0.43
17:BF:76:ASN:HD22	17:BF:76:ASN:C	2.25	0.43
17:BF:298:SER:HA	17:BF:299:GLU:HA	1.85	0.43
18:BC:124:HIS:ND1	18:BC:125:LYS:HG2	2.34	0.43
21:BI:22:GLU:O	21:BI:26:GLU:HG2	2.19	0.43
22:BJ:68:ASN:HA	22:BJ:211:MET:HE1	2.01	0.43
25:BM:40:ARG:HG2	25:BM:161:TRP:HA	2.01	0.43
28:BP:175:VAL:HG11	28:BP:182:GLY:HA2	2.00	0.43
3:AW:317:TRP:CD1	3:AW:358:VAL:HG21	2.54	0.42
5:AY:14:ASN:HD21	5:AY:214:MET:HA	1.84	0.42
5:AY:328:GLU:O	5:AY:331:ASP:HB3	2.18	0.42
6:AZ:84:LYS:HE3	9:Ac:76:PRO:HG3	2.01	0.42
7:Aa:73:PRO:HG2	7:Aa:113:LEU:HD21	1.99	0.42
7:Aa:259:PRO:C	7:Aa:261:LEU:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aa:270:ARG:NH1	7:Aa:313:LYS:HB3	2.31	0.42
7:Aa:293:PHE:HB3	7:Aa:329:LYS:O	2.18	0.42
9:Ac:154:LYS:NZ	15:AD:81:ARG:NH2	2.67	0.42
9:Ac:161:ARG:NH1	9:Ac:162:LEU:O	2.51	0.42
12:Af:198:HIS:CG	12:Af:199:ASN:H	2.37	0.42
12:Af:282:PHE:HD1	12:Af:293:GLN:HG3	1.84	0.42
12:Af:479:LEU:HD21	12:Af:852:VAL:HG23	2.01	0.42
12:Af:516:GLY:HA2	12:Af:519:ALA:HB3	2.01	0.42
12:Af:675:PHE:CE1	12:Af:693:ALA:HB3	2.54	0.42
15:AD:117:SER:H	18:AC:59:LEU:CD1	2.32	0.42
15:AD:279:THR:O	15:AD:282:ASP:HB3	2.19	0.42
17:AF:97:LEU:HD22	17:AF:120:LYS:HE2	1.99	0.42
19:AG:88:ARG:NH1	25:AM:157:SER:H	2.17	0.42
20:AH:161:THR:OG1	20:AH:162:ALA:N	2.51	0.42
23:AK:177:ALA:O	23:AK:181:LEU:HB3	2.20	0.42
24:AL:93:LEU:O	24:AL:97:PHE:HB2	2.19	0.42
24:AL:155:ASP:O	25:AM:58:TYR:HB2	2.19	0.42
25:AM:36:ALA:HB1	25:AM:49:VAL:HG22	2.00	0.42
26:AN:7:GLN:HA	26:AN:12:VAL:HA	2.01	0.42
28:AP:191:GLU:HG2	28:AP:194:LYS:O	2.18	0.42
29:AQ:170:ARG:HD2	29:BQ:26:VAL:HG23	2.01	0.42
2:BV:368:ARG:HH22	11:Be:47:ASN:ND2	2.17	0.42
2:BV:428:LEU:HD21	2:BV:434:ALA:N	2.33	0.42
4:BX:117:ALA:HB2	4:BX:125:LEU:HD23	2.01	0.42
6:BZ:22:HIS:HA	6:BZ:25:ARG:CG	2.48	0.42
10:Bd:60:GLN:O	10:Bd:64:LEU:HB2	2.19	0.42
12:Bf:453:SER:HA	12:Bf:484:GLY:CA	2.49	0.42
12:Bf:621:ASP:OD2	12:Bf:623:LYS:HB3	2.18	0.42
13:BA:277:ILE:HG22	13:BA:321:THR:HB	2.00	0.42
14:BB:411:ARG:NH2	14:BB:415:THR:HG23	2.34	0.42
15:BD:100:THR:HA	15:BD:114:ARG:HA	2.00	0.42
16:BE:307:GLN:O	16:BE:310:LEU:HB3	2.18	0.42
18:BC:327:ASP:O	18:BC:331:ILE:HG12	2.19	0.42
19:BG:88:ARG:NH1	25:BM:157:SER:H	2.17	0.42
20:BH:191:ALA:HA	20:BH:194:THR:HG22	2.01	0.42
21:BI:34:CYS:H	21:BI:164:ILE:HG22	1.84	0.42
25:BM:152:ASP:OD2	25:BM:154:SER:OG	2.37	0.42
30:BR:40:TYR:CD1	30:BR:41:LEU:HG	2.54	0.42
1:AU:250:PHE:HZ	1:AU:333:MET:SD	2.42	0.42
2:AV:80:LYS:HG3	2:AV:87:SER:HA	2.01	0.42
2:AV:360:TYR:O	2:AV:363:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:368:ARG:HH22	11:Ae:47:ASN:ND2	2.17	0.42
3:AW:55:ARG:NH1	3:AW:75:TYR:O	2.52	0.42
3:AW:449:GLU:O	3:AW:453:HIS:ND1	2.44	0.42
5:AY:267:ARG:HG3	5:AY:270:VAL:HG12	2.01	0.42
5:AY:319:MET:HE2	5:AY:319:MET:HA	2.01	0.42
6:AZ:182:THR:H	6:AZ:183:THR:HA	1.84	0.42
7:Aa:139:GLU:HA	7:Aa:142:LEU:HB3	2.01	0.42
9:Ac:172:HIS:C	9:Ac:174:PRO:HD3	2.44	0.42
11:Ae:1:MET:HB3	11:Ae:3:GLU:H	1.84	0.42
12:Af:739:ALA:CB	13:AA:169:LYS:HD2	2.48	0.42
18:AC:69:GLN:HG2	18:AC:69:GLN:O	2.19	0.42
20:AH:4:ARG:NH2	25:AM:127:ALA:H	2.17	0.42
23:AK:42:THR:O	23:AK:45:GLY:N	2.51	0.42
24:AL:92:CYS:O	24:AL:96:ARG:HB2	2.19	0.42
27:AO:195:LYS:NZ	31:BS:181:SER:CB	2.78	0.42
32:AT:179:ARG:CD	27:BO:135:MET:CG	2.87	0.42
1:BU:250:PHE:HA	1:BU:253:TYR:HB3	2.00	0.42
2:BV:263:LEU:C	2:BV:265:ASP:H	2.26	0.42
3:BW:257:GLN:HA	3:BW:258:ALA:CB	2.42	0.42
3:BW:441:LYS:HD2	3:BW:444:HIS:HE1	1.85	0.42
5:BY:293:ARG:HH22	11:Be:53:SER:HA	1.84	0.42
9:Bc:33:ILE:HD11	9:Bc:207:TYR:CD1	2.53	0.42
9:Bc:55:GLY:HA3	9:Bc:112:TYR:CZ	2.55	0.42
11:Be:5:LYS:HE3	11:Be:5:LYS:HB3	1.81	0.42
12:Bf:180:GLN:O	12:Bf:183:PRO:HD2	2.19	0.42
13:BA:210:LYS:HB2	13:BA:336:ARG:O	2.19	0.42
14:BB:261:GLY:HA2	14:BB:262:ASP:CB	2.48	0.42
16:BE:232:MET:HB2	16:BE:277:MET:HG2	2.01	0.42
17:BF:226:TYR:HA	17:BF:332:THR:O	2.19	0.42
17:BF:366:MET:HE2	17:BF:366:MET:HB3	1.84	0.42
18:BC:194:THR:HG21	18:BC:357:ALA:HB2	2.00	0.42
19:BG:27:TYR:HD1	19:BG:30:LYS:HE2	1.83	0.42
26:BN:111:VAL:O	26:BN:122:ARG:HG3	2.19	0.42
2:AV:289:LEU:HA	2:AV:292:THR:HG22	2.00	0.42
2:AV:494:MET:HG3	6:AZ:278:ASN:ND2	2.27	0.42
4:AX:74:ARG:HH22	4:AX:116:TRP:HB2	1.84	0.42
4:AX:398:GLU:O	4:AX:402:GLU:HG3	2.19	0.42
6:AZ:201:LEU:HD11	7:Aa:364:GLU:HB3	2.02	0.42
7:Aa:77:VAL:HA	7:Aa:80:ILE:HG22	2.01	0.42
9:Ac:273:LYS:HB2	9:Ac:277:LYS:HE2	2.01	0.42
10:Ad:10:ASN:OD1	10:Ad:11:ARG:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ad:55:LEU:HD12	10:Ad:81:TYR:HE2	1.84	0.42
10:Ad:191:PHE:HA	10:Ad:222:TYR:CE1	2.49	0.42
10:Ad:226:ALA:HA	10:Ad:227:SER:HA	1.66	0.42
13:AA:97:ARG:HA	13:AA:98:CYS:HA	1.56	0.42
15:AD:162:VAL:HB	15:AD:166:ASP:OD2	2.20	0.42
18:AC:324:ALA:O	18:AC:328:ILE:HG22	2.20	0.42
26:AN:29:ARG:HE	32:BT:178:TYR:C	2.22	0.42
29:AQ:140:LEU:O	29:AQ:144:ASP:HB3	2.18	0.42
31:AS:157:ASN:O	28:BP:169:GLN:CD	2.60	0.42
1:BU:371:ILE:HD12	1:BU:371:ILE:HA	1.92	0.42
1:BU:766:PHE:CD1	1:BU:776:SER:HA	2.55	0.42
2:BV:149:PRO:HG3	2:BV:203:LEU:HG	2.00	0.42
6:BZ:262:LEU:HA	6:BZ:265:LEU:HD22	2.00	0.42
9:Bc:154:LYS:NZ	15:BD:81:ARG:NH2	2.67	0.42
12:Bf:613:LEU:O	12:Bf:617:SER:CB	2.67	0.42
12:Bf:696:LEU:HD22	12:Bf:828:ARG:CZ	2.49	0.42
14:BB:125:THR:HG22	14:BB:129:SER:OG	2.19	0.42
15:BD:82:ILE:HG21	18:BC:63:LEU:CD2	2.49	0.42
16:BE:210:GLU:O	16:BE:213:ARG:HG2	2.18	0.42
17:BF:255:GLN:O	17:BF:258:GLN:NE2	2.49	0.42
18:BC:85:VAL:N	18:BC:97:VAL:O	2.52	0.42
18:BC:158:ILE:HG13	18:BC:162:LYS:HZ1	1.84	0.42
18:BC:338:LEU:HA	18:BC:378:VAL:H	1.83	0.42
19:BG:212:PRO:HG3	19:BG:236:ASP:HB2	2.02	0.42
21:BI:76:VAL:HG21	21:BI:83:ALA:CB	2.49	0.42
21:BI:143:TYR:HB2	21:BI:146:GLN:NE2	2.31	0.42
22:BJ:130:SER:OG	22:BJ:149:PRO:HD3	2.19	0.42
25:BM:10:SER:HB3	25:BM:13:THR:HG23	2.01	0.42
32:BT:5:MET:O	32:BT:7:THR:HG23	2.19	0.42
1:AU:82:LEU:O	1:AU:129:ARG:NE	2.52	0.42
1:AU:740:GLY:HA3	1:AU:744:VAL:HG22	2.01	0.42
2:AV:89:LYS:HD2	2:AV:93:PHE:HE2	1.83	0.42
5:AY:53:TYR:CD1	5:AY:53:TYR:C	2.97	0.42
12:Af:268:LEU:HB2	12:Af:300:ARG:HH22	1.84	0.42
12:Af:339:ILE:HG13	12:Af:340:MET:H	1.84	0.42
12:Af:429:ILE:HG23	12:Af:430:ASP:H	1.85	0.42
12:Af:453:SER:HA	12:Af:484:GLY:CA	2.49	0.42
12:Af:642:ALA:HB3	12:Af:643:PRO:HD3	2.00	0.42
12:Af:771:LEU:HD22	12:Af:819:TYR:OH	2.20	0.42
12:Af:819:TYR:HB2	12:Af:821:LEU:C	2.44	0.42
13:AA:143:ASP:O	13:AA:147:TYR:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AA:205:GLY:HA2	13:AA:206:ILE:CG2	2.49	0.42
13:AA:343:PHE:HB3	13:AA:344:SER:C	2.44	0.42
14:AB:310:LEU:O	14:AB:313:LEU:HB3	2.18	0.42
14:AB:346:ARG:NH2	14:AB:348:ASP:HB3	2.34	0.42
16:AE:232:MET:HB2	16:AE:277:MET:HG2	2.01	0.42
17:AF:97:LEU:CD1	17:AF:120:LYS:CB	2.98	0.42
17:AF:228:PRO:HA	17:AF:229:PRO:HD3	1.92	0.42
18:AC:169:VAL:HG21	18:AC:207:THR:HG21	2.01	0.42
23:AK:11:GLY:O	23:AK:13:ASN:N	2.52	0.42
23:AK:69:GLU:HB2	23:AK:228:MET:CE	2.50	0.42
24:AL:161:ILE:O	24:AL:165:SER:OG	2.36	0.42
26:AN:20:THR:OG1	26:AN:33:LYS:NZ	2.20	0.42
26:AN:111:VAL:O	26:AN:122:ARG:HG3	2.20	0.42
30:AR:40:TYR:CD1	30:AR:41:LEU:HG	2.54	0.42
1:BU:474:ARG:HE	1:BU:500:ASN:CG	2.26	0.42
2:BV:80:LYS:HG3	2:BV:87:SER:HA	2.01	0.42
2:BV:276:PHE:HA	2:BV:277:PRO:HD3	1.86	0.42
2:BV:360:TYR:O	2:BV:363:LEU:HB3	2.20	0.42
3:BW:136:ILE:HD11	16:BE:161:ARG:NH1	2.35	0.42
3:BW:441:LYS:HA	3:BW:444:HIS:HE1	1.82	0.42
4:BX:398:GLU:O	4:BX:402:GLU:HG3	2.19	0.42
5:BY:210:SER:HB3	5:BY:213:LEU:CB	2.49	0.42
6:BZ:8:LYS:HG3	6:BZ:47:VAL:HG23	2.00	0.42
6:BZ:182:THR:H	6:BZ:183:THR:HA	1.84	0.42
7:Ba:68:GLU:CD	7:Ba:71:VAL:HG23	2.44	0.42
11:Be:4:LYS:HD3	11:Be:4:LYS:HA	1.86	0.42
12:Bf:198:HIS:CG	12:Bf:199:ASN:H	2.37	0.42
12:Bf:323:ASN:OD1	12:Bf:323:ASN:N	2.52	0.42
12:Bf:608:LYS:O	12:Bf:612:LEU:HG	2.18	0.42
12:Bf:631:LYS:O	12:Bf:634:LYS:HB3	2.18	0.42
12:Bf:776:LEU:N	12:Bf:777:THR:C	2.78	0.42
13:BA:248:LYS:HD3	13:BA:248:LYS:HA	1.84	0.42
13:BA:256:MET:O	13:BA:259:GLU:HG2	2.19	0.42
13:BA:343:PHE:HB3	13:BA:344:SER:C	2.44	0.42
18:BC:72:TYR:HB2	18:BC:116:LEU:HB3	2.02	0.42
18:BC:308:PRO:HG2	18:BC:310:ARG:HG2	2.01	0.42
21:BI:91:ARG:HD3	28:BP:76:LEU:HB3	2.01	0.42
24:BL:208:LYS:HA	24:BL:226:ASP:OD1	2.19	0.42
28:BP:74:TYR:CE2	28:BP:82:ILE:HG13	2.54	0.42
29:BQ:91:CYS:SG	29:BQ:97:PRO:HA	2.59	0.42
29:BQ:186:ASN:HB2	29:BQ:189:HIS:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:12:LEU:HB2	1:AU:44:LYS:HE3	2.02	0.42
1:AU:356:THR:HG22	1:AU:717:ILE:HG21	2.01	0.42
1:AU:470:ASN:HA	1:AU:471:ASP:HA	1.76	0.42
1:AU:772:TRP:HB3	1:AU:775:LEU:HG	2.01	0.42
4:AX:117:ALA:HB2	4:AX:125:LEU:HD23	2.01	0.42
5:AY:138:LEU:HD12	5:AY:141:VAL:HB	2.01	0.42
6:AZ:120:VAL:HG23	6:AZ:138:TYR:O	2.19	0.42
6:AZ:262:LEU:HA	6:AZ:265:LEU:HD22	2.00	0.42
7:Aa:34:TRP:CH2	7:Aa:67:PHE:HE1	2.38	0.42
7:Aa:68:GLU:CD	7:Aa:71:VAL:HG23	2.44	0.42
12:Af:180:GLN:O	12:Af:183:PRO:HD2	2.19	0.42
12:Af:369:ARG:NE	12:Af:371:ASN:HB2	2.35	0.42
12:Af:617:SER:O	12:Af:618:GLU:HB2	2.19	0.42
12:Af:621:ASP:O	12:Af:622:SER:OG	2.26	0.42
12:Af:696:LEU:HD22	12:Af:828:ARG:CZ	2.49	0.42
13:AA:309:PHE:CZ	17:AF:235:LEU:HA	2.48	0.42
14:AB:365:PHE:CE2	14:AB:380:LEU:HB3	2.54	0.42
14:AB:392:GLY:HA3	35:AB:501:ADP:C5	2.55	0.42
15:AD:312:ASN:OD1	16:AE:242:ARG:NH2	2.52	0.42
16:AE:312:ILE:O	16:AE:315:ILE:HG13	2.20	0.42
17:AF:238:ARG:HE	17:AF:250:LYS:HG2	1.83	0.42
18:AC:262:GLY:O	18:AC:266:ASP:HB3	2.20	0.42
19:AG:28:ALA:O	19:AG:31:ALA:N	2.52	0.42
22:AJ:130:SER:OG	22:AJ:149:PRO:HD3	2.19	0.42
24:AL:22:ILE:HG21	24:AL:150:SER:HB3	2.00	0.42
24:AL:205:LEU:H	24:AL:209:ASN:HD21	1.67	0.42
25:AM:108:LEU:HD22	25:AM:139:SER:HB3	2.00	0.42
25:AM:231:ILE:O	25:AM:232:ARG:HB2	2.19	0.42
27:AO:208:THR:HA	31:BS:159:GLN:HG3	1.72	0.42
32:AT:34:ALA:O	26:BN:166:ARG:HD2	2.19	0.42
3:BW:90:LEU:HA	3:BW:94:ARG:HD2	2.01	0.42
4:BX:360:ASP:HA	4:BX:363:ARG:NE	2.33	0.42
6:BZ:59:ASP:HB2	8:Bb:95:LEU:HD11	2.00	0.42
6:BZ:134:PRO:HG3	9:Bc:220:LEU:CD1	2.49	0.42
8:Bb:30:GLN:HG3	8:Bb:75:LEU:HD13	2.01	0.42
10:Bd:55:LEU:HD12	10:Bd:81:TYR:HE2	1.84	0.42
12:Bf:631:LYS:HE3	12:Bf:631:LYS:HB3	1.83	0.42
12:Bf:675:PHE:CE1	12:Bf:693:ALA:HB3	2.54	0.42
12:Bf:745:LEU:HD13	12:Bf:766:GLN:OE1	2.20	0.42
14:BB:300:GLY:HA2	14:BB:301:GLY:HA2	1.77	0.42
14:BB:394:ASP:O	14:BB:398:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BE:309:ARG:NH1	16:BE:338:PHE:HB2	2.34	0.42
17:BF:421:MET:HA	17:BF:424:ILE:HD12	2.00	0.42
18:BC:137:LEU:O	18:BC:140:VAL:HG12	2.19	0.42
18:BC:168:PRO:HG2	18:BC:290:LYS:HE3	2.01	0.42
19:BG:102:LYS:HE3	19:BG:102:LYS:HB3	1.86	0.42
23:BK:11:GLY:O	23:BK:13:ASN:N	2.52	0.42
24:BL:104:PRO:HG2	24:BL:107:ARG:HH11	1.85	0.42
32:BT:4:PRO:HG3	32:BT:107:TRP:CD1	2.54	0.42
1:AU:766:PHE:CD1	1:AU:776:SER:HA	2.54	0.42
3:AW:175:GLY:HA2	16:AE:161:ARG:HD2	2.01	0.42
9:Ac:278:GLN:HB2	9:Ac:279:ASP:O	2.19	0.42
12:Af:493:ASN:C	12:Af:495:GLU:HB2	2.45	0.42
12:Af:504:VAL:HG13	12:Af:519:ALA:HB2	2.01	0.42
14:AB:125:THR:HG22	14:AB:129:SER:OG	2.19	0.42
14:AB:217:LYS:HB3	14:AB:217:LYS:HE3	1.83	0.42
15:AD:172:ILE:HG13	15:AD:173:GLN:H	1.83	0.42
17:AF:318:ASP:HB2	17:AF:347:ARG:NH1	2.33	0.42
18:AC:167:LEU:HB3	18:AC:168:PRO:HD3	2.01	0.42
21:AI:34:CYS:H	21:AI:164:ILE:HG22	1.84	0.42
21:AI:91:ARG:HD3	28:AP:76:LEU:HB3	2.01	0.42
21:AI:124:PHE:HB2	22:AJ:123:GLY:O	2.20	0.42
22:AJ:18:GLN:HA	22:AJ:21:TYR:HD2	1.85	0.42
23:AK:65:GLU:HG2	23:AK:65:GLU:O	2.19	0.42
25:AM:40:ARG:HG2	25:AM:161:TRP:HA	2.01	0.42
29:AQ:4:LEU:HD22	29:AQ:18:ASP:N	2.29	0.42
3:BW:70:VAL:O	3:BW:73:MET:HG2	2.18	0.42
3:BW:317:TRP:CD1	3:BW:358:VAL:HG21	2.54	0.42
5:BY:109:GLU:HG2	5:BY:124:PHE:HE1	1.82	0.42
5:BY:319:MET:HE2	5:BY:319:MET:HA	2.01	0.42
6:BZ:84:LYS:HE3	9:Bc:76:PRO:HG3	2.02	0.42
7:Ba:148:VAL:C	7:Ba:150:SER:H	2.28	0.42
8:Bb:5:SER:HB3	8:Bb:64:LEU:HD21	2.02	0.42
10:Bd:69:PRO:HA	10:Bd:72:GLU:HG2	2.02	0.42
12:Bf:282:PHE:CE2	12:Bf:286:LYS:HD3	2.54	0.42
12:Bf:387:GLN:O	12:Bf:391:LEU:HB2	2.20	0.42
12:Bf:617:SER:O	12:Bf:618:GLU:HB2	2.19	0.42
15:BD:243:GLY:HA3	15:BD:288:ILE:HD13	2.02	0.42
17:BF:228:PRO:HA	17:BF:229:PRO:HD3	1.92	0.42
17:BF:344:ARG:HB3	17:BF:347:ARG:HB2	2.01	0.42
18:BC:84:LYS:HA	18:BC:98:ASP:HA	2.02	0.42
25:BM:173:LYS:HA	25:BM:176:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:368:ARG:HH22	11:Ae:47:ASN:HD21	1.66	0.42
3:AW:192:LEU:O	3:AW:196:VAL:HG23	2.20	0.42
5:AY:85:ASP:HA	5:AY:88:LEU:CD2	2.50	0.42
6:AZ:37:GLY:HA3	6:AZ:95:TYR:CZ	2.54	0.42
6:AZ:190:ARG:O	6:AZ:193:ASN:HB2	2.20	0.42
10:Ad:160:ALA:HB3	10:Ad:161:GLU:HA	2.00	0.42
11:Ae:5:LYS:HE3	11:Ae:5:LYS:HB3	1.80	0.42
12:Af:509:LYS:HB3	12:Af:511:SER:O	2.20	0.42
13:AA:184:ILE:O	13:AA:188:ARG:CB	2.68	0.42
14:AB:233:THR:HG23	35:AB:501:ADP:N7	2.34	0.42
15:AD:303:VAL:HA	15:AD:304:ASN:CB	2.42	0.42
18:AC:194:THR:O	18:AC:317:PHE:HZ	2.02	0.42
23:AK:79:SER:O	23:AK:139:VAL:HG23	2.20	0.42
28:AP:203:ARG:NH1	30:BR:193:ALA:HB3	2.34	0.42
29:AQ:4:LEU:HD22	29:AQ:17:SER:HA	2.02	0.42
29:AQ:29:LYS:HD3	29:AQ:32:HIS:HB2	2.01	0.42
30:AR:26:ILE:CB	28:BP:177:ARG:HG3	2.42	0.42
1:BU:250:PHE:HZ	1:BU:333:MET:SD	2.42	0.42
2:BV:79:VAL:HG12	2:BV:161:PRO:HB2	2.01	0.42
2:BV:99:ARG:HG3	2:BV:143:ALA:O	2.20	0.42
2:BV:245:ASP:OD2	2:BV:281:ASN:ND2	2.51	0.42
4:BX:331:LEU:HD23	4:BX:364:LYS:HG2	2.01	0.42
5:BY:215:ASP:OD2	5:BY:218:THR:HG23	2.20	0.42
6:BZ:120:VAL:HG23	6:BZ:138:TYR:O	2.19	0.42
9:Bc:278:GLN:HB2	9:Bc:279:ASP:O	2.20	0.42
12:Bf:369:ARG:NE	12:Bf:371:ASN:HB2	2.35	0.42
12:Bf:777:THR:HA	12:Bf:778:LEU:HA	1.77	0.42
13:BA:112:ILE:HB	13:BA:122:VAL:HG22	2.01	0.42
13:BA:309:PHE:CZ	17:BF:235:LEU:HA	2.48	0.42
15:BD:311:THR:HG21	15:BD:317:LEU:HD11	2.01	0.42
15:BD:312:ASN:OD1	16:BE:242:ARG:NH2	2.52	0.42
17:BF:264:GLY:HA2	17:BF:267:LEU:HB2	2.01	0.42
21:BI:35:LEU:CA	21:BI:162:THR:HG21	2.46	0.42
22:BJ:118:TYR:HD1	22:BJ:124:ARG:HH21	1.67	0.42
24:BL:161:ILE:O	24:BL:165:SER:OG	2.36	0.42
29:BQ:3:TYR:OH	29:BQ:130:ALA:O	2.32	0.42
6:AZ:59:ASP:HB2	8:Ab:95:LEU:HD11	2.00	0.42
8:Ab:30:GLN:HG3	8:Ab:75:LEU:HD13	2.01	0.42
9:Ac:275:VAL:HG13	9:Ac:276:GLY:N	2.34	0.42
9:Ac:292:MET:O	9:Ac:296:ILE:HG13	2.20	0.42
10:Ad:69:PRO:HA	10:Ad:72:GLU:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Af:387:GLN:O	12:Af:391:LEU:HB2	2.20	0.42
12:Af:441:LYS:NZ	12:Af:445:LEU:HD23	2.33	0.42
13:AA:312:ARG:HA	13:AA:313:GLY:HA2	1.43	0.42
14:AB:409:GLU:OE1	14:AB:411:ARG:NE	2.44	0.42
15:AD:173:GLN:OE1	15:AD:333:PHE:HA	2.20	0.42
15:AD:194:ILE:HD12	15:AD:196:ILE:HD13	2.02	0.42
15:AD:226:ALA:O	15:AD:261:ILE:HB	2.20	0.42
17:AF:317:LEU:O	17:AF:344:ARG:NH1	2.53	0.42
24:AL:85:CYS:SG	24:AL:89:ARG:NH2	2.93	0.42
25:AM:10:SER:HB3	25:AM:13:THR:HG23	2.01	0.42
26:AN:42:PHE:CD2	26:AN:179:ILE:HD11	2.54	0.42
29:AQ:59:TYR:O	29:AQ:63:ASN:ND2	2.43	0.42
30:AR:13:ILE:HD13	30:AR:13:ILE:HA	1.89	0.42
31:AS:12:ILE:HD11	31:AS:54:CYS:C	2.45	0.42
32:AT:180:ASP:O	26:BN:26:ILE:HG12	2.20	0.42
2:BV:100:MET:O	2:BV:104:THR:HG23	2.20	0.42
2:BV:368:ARG:HH22	11:Be:47:ASN:HD21	1.66	0.42
3:BW:434:SER:HA	6:BZ:237:LEU:HD22	2.00	0.42
5:BY:210:SER:HB3	5:BY:213:LEU:HG	2.02	0.42
5:BY:330:ILE:HA	5:BY:333:GLU:HB3	2.02	0.42
6:BZ:37:GLY:HA3	6:BZ:95:TYR:CZ	2.54	0.42
7:Ba:112:ILE:HD13	7:Ba:151:VAL:HG21	2.02	0.42
8:Bb:163:LYS:HA	8:Bb:164:ASP:HA	1.91	0.42
9:Bc:152:LYS:HG3	9:Bc:153:GLY:N	2.32	0.42
12:Bf:493:ASN:C	12:Bf:495:GLU:HB2	2.45	0.42
12:Bf:819:TYR:HB2	12:Bf:821:LEU:C	2.44	0.42
13:BA:219:GLY:HA2	13:BA:220:THR:HA	1.48	0.42
17:BF:345:SER:HA	17:BF:349:ASP:HB2	2.01	0.42
19:BG:197:THR:HA	19:BG:200:THR:OG1	2.18	0.42
24:BL:52:ALA:HB2	24:BL:59:HIS:HD2	1.84	0.42
24:BL:65:HIS:CD2	24:BL:221:PHE:HD2	2.37	0.42
27:BO:36:PHE:HA	27:BO:42:TYR:CD1	2.54	0.42
29:BQ:85:ARG:HB2	29:BQ:124:LEU:HD11	2.02	0.42
1:AU:383:ASP:OD2	1:AU:387:ARG:NH2	2.53	0.42
2:AV:171:VAL:O	2:AV:175:MET:HG3	2.19	0.42
3:AW:434:SER:HA	6:AZ:237:LEU:HD22	2.00	0.42
4:AX:221:GLU:HB3	4:AX:223:LYS:HG2	2.02	0.42
5:AY:208:PHE:HB3	5:AY:209:THR:H	1.55	0.42
7:Aa:333:MET:HA	7:Aa:333:MET:HE2	2.01	0.42
8:Ab:5:SER:HB3	8:Ab:64:LEU:HD21	2.02	0.42
9:Ac:156:VAL:CG1	9:Ac:157:ILE:H	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ad:60:GLN:O	10:Ad:64:LEU:HB2	2.19	0.42
14:AB:123:VAL:O	14:AB:130:GLU:HA	2.20	0.42
14:AB:394:ASP:O	14:AB:398:ILE:HG23	2.20	0.42
15:AD:402:ALA:HA	15:AD:405:THR:HB	2.02	0.42
16:AE:309:ARG:NH1	16:AE:338:PHE:HB2	2.34	0.42
17:AF:366:MET:HG3	17:AF:396:CYS:HB3	2.02	0.42
19:AG:195:VAL:O	19:AG:199:ILE:HD12	2.20	0.42
21:AI:127:LYS:HE3	21:AI:127:LYS:HB3	1.87	0.42
21:AI:218:ARG:HA	21:AI:218:ARG:HD2	1.88	0.42
28:AP:16:GLY:HA3	28:AP:163:LEU:HD22	2.01	0.42
1:BU:740:GLY:HA3	1:BU:744:VAL:HG22	2.01	0.42
2:BV:279:GLN:HB2	2:BV:285:TRP:CG	2.55	0.42
3:BW:328:LEU:HD11	3:BW:341:PHE:CE2	2.52	0.42
5:BY:297:ARG:O	5:BY:301:ILE:HG22	2.20	0.42
6:BZ:30:GLY:HA3	6:BZ:31:ASN:HA	1.79	0.42
7:Ba:270:ARG:O	7:Ba:270:ARG:NH2	2.50	0.42
13:BA:83:ASP:HA	13:BA:86:THR:HB	2.01	0.42
13:BA:105:ASP:OD1	13:BA:105:ASP:N	2.45	0.42
13:BA:344:SER:N	13:BA:345:LEU:HB2	2.35	0.42
13:BA:427:PRO:O	13:BA:430:MET:HB3	2.19	0.42
13:BA:428:ARG:NH2	13:BA:431:THR:HG21	2.35	0.42
14:BB:193:GLN:HG2	14:BB:237:LYS:NZ	2.32	0.42
14:BB:230:THR:HA	35:BB:501:ADP:O1A	2.20	0.42
14:BB:255:LEU:H	14:BB:255:LEU:HG	1.68	0.42
14:BB:390:LEU:HD21	14:BB:430:LYS:NZ	2.35	0.42
14:BB:409:GLU:OE1	14:BB:411:ARG:NE	2.44	0.42
15:BD:226:ALA:O	15:BD:261:ILE:HB	2.20	0.42
16:BE:310:LEU:O	16:BE:314:LYS:NZ	2.41	0.42
18:BC:262:GLY:O	18:BC:266:ASP:HB3	2.19	0.42
23:BK:13:ASN:OD1	24:BL:126:ARG:NH1	2.48	0.42
25:BM:40:ARG:HH21	25:BM:161:TRP:NE1	2.17	0.42
26:BN:42:PHE:CD2	26:BN:179:ILE:HD11	2.54	0.42
1:AU:127:ASP:O	1:AU:131:GLU:HG2	2.19	0.42
1:AU:264:VAL:HG22	1:AU:268:LEU:HD22	2.02	0.42
1:AU:682:TYR:HB3	1:AU:725:MET:SD	2.59	0.42
2:AV:149:PRO:HG3	2:AV:203:LEU:HG	2.00	0.42
3:AW:127:THR:HA	3:AW:130:MET:HG2	2.02	0.42
4:AX:368:MET:HB3	4:AX:374:PHE:HB3	2.02	0.42
4:AX:420:LYS:NZ	6:AZ:279:LYS:HD2	2.35	0.42
5:AY:330:ILE:HA	5:AY:333:GLU:HB3	2.02	0.42
5:AY:387:ILE:HA	5:AY:388:ASN:HA	1.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aa:96:PHE:O	7:Aa:100:THR:HG23	2.20	0.42
7:Aa:148:VAL:C	7:Aa:150:SER:H	2.28	0.42
7:Aa:252:LYS:HD3	7:Aa:252:LYS:HA	1.75	0.42
7:Aa:342:ASP:O	7:Aa:346:ILE:HD12	2.20	0.42
10:Ad:213:ARG:C	10:Ad:215:TRP:HB3	2.43	0.42
10:Ad:233:GLU:H	10:Ad:234:ASP:HA	1.84	0.42
12:Af:483:PHE:CE2	12:Af:487:LEU:HD22	2.55	0.42
12:Af:556:ARG:HG2	12:Af:592:ASN:HA	2.02	0.42
12:Af:669:GLU:C	12:Af:671:ALA:N	2.78	0.42
12:Af:774:GLY:HA2	12:Af:777:THR:O	2.20	0.42
14:AB:224:LEU:HD13	14:AB:234:LEU:HB3	2.01	0.42
14:AB:229:GLY:HA3	18:AC:308:PRO:HG3	2.01	0.42
14:AB:390:LEU:HD21	14:AB:430:LYS:NZ	2.35	0.42
15:AD:82:ILE:HG21	18:AC:63:LEU:CD2	2.49	0.42
15:AD:100:THR:HG21	15:AD:112:TYR:OH	2.20	0.42
17:AF:251:LEU:HD12	17:AF:252:ALA:H	1.85	0.42
18:AC:269:VAL:O	18:AC:272:THR:HB	2.20	0.42
29:AQ:85:ARG:HB2	29:AQ:124:LEU:HD11	2.02	0.42
29:AQ:166:GLU:CG	30:BR:141:ARG:HB2	2.48	0.42
30:AR:26:ILE:CG2	28:BP:176:ASP:O	2.56	0.42
31:AS:81:LYS:HE3	31:AS:81:LYS:HB2	1.87	0.42
1:BU:127:ASP:O	1:BU:131:GLU:HG2	2.19	0.42
1:BU:612:ASP:HB3	1:BU:647:HIS:CG	2.55	0.42
2:BV:392:TYR:O	2:BV:395:ILE:HG22	2.19	0.42
3:BW:129:ARG:O	3:BW:132:THR:OG1	2.37	0.42
7:Ba:337:GLN:HE21	7:Ba:339:ARG:NH1	2.18	0.42
9:Bc:292:MET:O	9:Bc:296:ILE:HG13	2.20	0.42
12:Bf:243:PRO:HA	12:Bf:246:SER:HB2	2.02	0.42
12:Bf:390:LEU:HG	12:Bf:408:LEU:HD22	2.02	0.42
12:Bf:441:LYS:NZ	12:Bf:445:LEU:HD23	2.33	0.42
13:BA:248:LYS:HG2	14:BB:261:GLY:C	2.45	0.42
14:BB:220:LYS:HB3	14:BB:346:ARG:CZ	2.50	0.42
14:BB:392:GLY:HA3	35:BB:501:ADP:C5	2.55	0.42
15:BD:402:ALA:HA	15:BD:405:THR:HB	2.02	0.42
34:BE:401:ATP:H4'	17:BF:344:ARG:HE	1.84	0.42
18:BC:291:VAL:HB	18:BC:293:MET:HE1	2.01	0.42
18:BC:324:ALA:O	18:BC:328:ILE:HG22	2.20	0.42
19:BG:144:ASP:OD1	19:BG:145:GLU:N	2.45	0.42
21:BI:124:PHE:HB2	22:BJ:123:GLY:O	2.20	0.42
23:BK:185:TYR:CG	23:BK:186:HIS:N	2.88	0.42
23:BK:225:ASN:OD1	23:BK:225:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BP:16:GLY:HA3	28:BP:163:LEU:HD22	2.01	0.42
1:AU:17:PRO:O	1:AU:20:LYS:N	2.53	0.41
1:AU:364:VAL:HG12	1:AU:728:PHE:CD1	2.55	0.41
2:AV:186:LYS:HZ3	2:AV:234:ARG:HD3	1.85	0.41
2:AV:276:PHE:HA	2:AV:277:PRO:HD3	1.86	0.41
2:AV:363:LEU:O	2:AV:367:VAL:HG23	2.20	0.41
3:AW:90:LEU:HA	3:AW:94:ARG:HD2	2.01	0.41
3:AW:441:LYS:HD2	3:AW:444:HIS:HE1	1.84	0.41
5:AY:143:TYR:HA	5:AY:146:ARG:HG2	2.01	0.41
5:AY:297:ARG:O	5:AY:301:ILE:HG22	2.20	0.41
9:Ac:55:GLY:HA3	9:Ac:112:TYR:CZ	2.55	0.41
9:Ac:75:MET:HE3	9:Ac:76:PRO:HD2	2.02	0.41
12:Af:509:LYS:HZ2	12:Af:516:GLY:HA2	1.85	0.41
14:AB:261:GLY:HA2	14:AB:262:ASP:CB	2.48	0.41
16:AE:211:SER:O	16:AE:215:ILE:HG12	2.19	0.41
18:AC:72:TYR:HB2	18:AC:116:LEU:HB3	2.01	0.41
23:AK:146:VAL:HG11	23:AK:222:PRO:HA	2.01	0.41
23:AK:185:TYR:CG	23:AK:186:HIS:N	2.88	0.41
28:AP:152:SER:CB	31:BS:148:LEU:CD2	2.96	0.41
29:AQ:13:VAL:O	29:AQ:182:ILE:HD12	2.21	0.41
31:AS:136:LYS:HD3	31:AS:136:LYS:HA	1.89	0.41
31:AS:159:GLN:HG3	27:BO:208:THR:HA	1.69	0.41
32:AT:27:LEU:HD22	32:AT:184:TYR:HB3	2.02	0.41
1:BU:383:ASP:OD2	1:BU:387:ARG:NH2	2.53	0.41
1:BU:396:ALA:HB1	1:BU:400:ALA:CB	2.50	0.41
1:BU:682:TYR:HB3	1:BU:725:MET:SD	2.59	0.41
3:BW:123:ARG:NH1	3:BW:127:THR:HB	2.29	0.41
3:BW:175:GLY:HA2	16:BE:161:ARG:HD2	2.01	0.41
5:BY:297:ARG:HB3	11:Be:52:PHE:HZ	1.85	0.41
7:Ba:342:ASP:O	7:Ba:346:ILE:HD12	2.20	0.41
9:Bc:75:MET:HE3	9:Bc:76:PRO:HD2	2.02	0.41
10:Bd:233:GLU:H	10:Bd:234:ASP:HA	1.84	0.41
12:Bf:198:HIS:CG	12:Bf:199:ASN:N	2.88	0.41
12:Bf:429:ILE:HG23	12:Bf:430:ASP:H	1.85	0.41
12:Bf:669:GLU:C	12:Bf:671:ALA:N	2.78	0.41
13:BA:232:ARG:HA	13:BA:232:ARG:HD2	1.85	0.41
14:BB:346:ARG:NH2	14:BB:348:ASP:HB3	2.34	0.41
17:BF:252:ALA:HB3	17:BF:255:GLN:CG	2.49	0.41
17:BF:317:LEU:O	17:BF:344:ARG:NH1	2.53	0.41
17:BF:360:GLU:O	17:BF:364:ARG:HG3	2.20	0.41
17:BF:366:MET:HG3	17:BF:396:CYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BC:69:GLN:HG2	18:BC:69:GLN:O	2.19	0.41
18:BC:167:LEU:HB3	18:BC:168:PRO:HD3	2.01	0.41
23:BK:65:GLU:O	23:BK:65:GLU:HG2	2.19	0.41
24:BL:205:LEU:H	24:BL:209:ASN:HD21	1.67	0.41
25:BM:231:ILE:O	25:BM:232:ARG:HB2	2.19	0.41
31:BS:136:LYS:HD3	31:BS:136:LYS:HA	1.89	0.41
1:AU:612:ASP:HB3	1:AU:647:HIS:CG	2.55	0.41
2:AV:372:LEU:HD13	2:AV:426:LEU:O	2.21	0.41
3:AW:87:ILE:O	3:AW:88:MET:HB2	2.18	0.41
3:AW:136:ILE:HD11	16:AE:161:ARG:NH1	2.35	0.41
5:AY:297:ARG:HB3	11:Ae:52:PHE:HZ	1.85	0.41
7:Aa:35:HIS:HE1	8:Ab:17:ARG:HB2	1.85	0.41
12:Af:180:GLN:O	12:Af:184:LEU:HG	2.20	0.41
12:Af:248:LEU:HD11	12:Af:285:CYS:SG	2.60	0.41
13:AA:90:GLU:CG	13:AA:94:GLN:NE2	2.75	0.41
13:AA:233:THR:HG23	13:AA:234:ASP:H	1.85	0.41
13:AA:313:GLY:C	13:AA:315:ILE:N	2.78	0.41
13:AA:428:ARG:NH2	13:AA:431:THR:HG21	2.35	0.41
14:AB:380:LEU:HD12	14:AB:381:ASP:N	2.35	0.41
15:AD:47:LEU:HD12	18:AC:25:LEU:HB3	2.02	0.41
15:AD:62:LYS:O	15:AD:66:LYS:HG3	2.20	0.41
15:AD:81:ARG:NE	15:AD:82:ILE:CD1	2.76	0.41
15:AD:83:GLN:H	15:AD:83:GLN:HG2	1.69	0.41
15:AD:116:LEU:HD12	15:AD:140:VAL:HG22	2.01	0.41
15:AD:154:LEU:HD11	15:AD:157:ASP:OD2	2.19	0.41
15:AD:243:GLY:HA3	15:AD:288:ILE:HD13	2.02	0.41
18:AC:267:SER:O	18:AC:271:ARG:HB2	2.20	0.41
18:AC:277:LEU:O	18:AC:281:ASP:CB	2.68	0.41
22:AJ:68:ASN:HA	22:AJ:211:MET:HE1	2.01	0.41
30:AR:26:ILE:CB	28:BP:177:ARG:HD3	2.48	0.41
30:AR:158:ARG:CG	29:BQ:145:ARG:HD3	2.05	0.41
1:BU:82:LEU:O	1:BU:129:ARG:NE	2.52	0.41
2:BV:464:ILE:HB	2:BV:465:ASP:H	1.77	0.41
4:BX:371:ASP:C	4:BX:373:LYS:H	2.28	0.41
5:BY:208:PHE:HB3	5:BY:209:THR:H	1.55	0.41
6:BZ:201:LEU:HD11	7:Ba:364:GLU:HB3	2.02	0.41
10:Bd:175:ARG:HA	10:Bd:178:ILE:HD13	2.02	0.41
12:Bf:282:PHE:HD1	12:Bf:293:GLN:HG3	1.84	0.41
12:Bf:405:HIS:HA	12:Bf:408:LEU:HB2	2.02	0.41
12:Bf:621:ASP:O	12:Bf:622:SER:OG	2.26	0.41
12:Bf:635:LYS:HE3	12:Bf:635:LYS:HB3	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:734:SER:OG	12:Bf:771:LEU:HD11	2.19	0.41
12:Bf:774:GLY:HA2	12:Bf:777:THR:O	2.20	0.41
13:BA:241:ILE:H	13:BA:241:ILE:HG12	1.68	0.41
14:BB:224:LEU:HD13	14:BB:234:LEU:HB3	2.01	0.41
14:BB:425:ASN:O	14:BB:429:LYS:CB	2.64	0.41
18:BC:131:VAL:HG13	18:BC:132:ASP:N	2.32	0.41
19:BG:84:THR:O	19:BG:87:SER:OG	2.21	0.41
19:BG:183:VAL:HA	19:BG:189:TRP:HZ2	1.85	0.41
21:BI:108:GLU:OE2	21:BI:146:GLN:NE2	2.49	0.41
23:BK:69:GLU:HB2	23:BK:228:MET:CE	2.50	0.41
23:BK:177:ALA:O	23:BK:181:LEU:HB3	2.19	0.41
24:BL:155:ASP:O	25:BM:58:TYR:HB2	2.19	0.41
24:BL:211:SER:C	24:BL:212:ILE:HD12	2.45	0.41
25:BM:163:CYS:SG	25:BM:164:ALA:N	2.94	0.41
27:BO:114:TYR:HE1	27:BO:127:MET:HE1	1.85	0.41
2:AV:79:VAL:O	2:AV:80:LYS:NZ	2.26	0.41
4:AX:331:LEU:HD23	4:AX:364:LYS:HG2	2.02	0.41
6:AZ:22:HIS:HA	6:AZ:25:ARG:CG	2.48	0.41
6:AZ:77:ASN:O	6:AZ:81:MET:HG3	2.20	0.41
8:Ab:11:ASP:OD2	8:Ab:114:GLY:N	2.49	0.41
8:Ab:142:ASN:HD22	8:Ab:172:THR:HG22	1.85	0.41
10:Ad:45:LYS:O	10:Ad:49:ILE:HG12	2.20	0.41
12:Af:268:LEU:CG	12:Af:300:ARG:HH22	2.33	0.41
12:Af:404:ASP:O	12:Af:407:MET:HG2	2.20	0.41
12:Af:588:ARG:O	12:Af:592:ASN:HB2	2.21	0.41
13:AA:256:MET:O	13:AA:259:GLU:HG2	2.19	0.41
13:AA:427:PRO:O	13:AA:430:MET:HB3	2.19	0.41
14:AB:175:LYS:NZ	14:AB:247:PHE:O	2.48	0.41
15:AD:228:ILE:HB	15:AD:262:ILE:HA	2.01	0.41
15:AD:311:THR:HG21	15:AD:317:LEU:HD11	2.01	0.41
16:AE:180:LYS:HG3	16:AE:181:THR:N	2.30	0.41
16:AE:371:VAL:O	16:AE:375:ALA:HB3	2.20	0.41
19:AG:179:LEU:O	19:AG:182:LYS:N	2.53	0.41
21:AI:233:VAL:O	21:AI:237:ILE:HG13	2.21	0.41
23:AK:14:THR:HG23	24:AL:21:GLN:OE1	2.20	0.41
24:AL:52:ALA:HB2	24:AL:59:HIS:HD2	1.84	0.41
24:AL:208:LYS:HA	24:AL:226:ASP:OD1	2.20	0.41
26:AN:33:LYS:O	26:AN:44:CYS:HA	2.21	0.41
26:AN:96:ALA:H	26:AN:116:MET:HG2	1.85	0.41
28:AP:56:LEU:O	28:AP:60:VAL:HG23	2.20	0.41
31:AS:181:SER:CB	27:BO:195:LYS:NZ	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:186:LYS:NZ	2:BV:234:ARG:HD3	2.35	0.41
3:BW:435:LEU:HD22	9:Bc:239:LYS:NZ	2.36	0.41
4:BX:420:LYS:NZ	6:BZ:279:LYS:HD2	2.35	0.41
5:BY:14:ASN:HD21	5:BY:214:MET:HA	1.84	0.41
5:BY:143:TYR:HA	5:BY:146:ARG:HG2	2.01	0.41
5:BY:221:THR:HA	5:BY:224:VAL:HG12	2.03	0.41
5:BY:286:TRP:O	5:BY:287:LEU:HG	2.19	0.41
9:Bc:53:VAL:HG22	9:Bc:114:SER:HB2	2.01	0.41
9:Bc:163:ILE:HG22	9:Bc:199:HIS:C	2.44	0.41
12:Bf:339:ILE:HG13	12:Bf:340:MET:H	1.84	0.41
12:Bf:588:ARG:O	12:Bf:592:ASN:HB2	2.21	0.41
12:Bf:590:PHE:HB2	12:Bf:623:LYS:HE2	2.02	0.41
12:Bf:771:LEU:HD22	12:Bf:819:TYR:OH	2.20	0.41
13:BA:121:PHE:HA	17:BF:88:TYR:O	2.20	0.41
13:BA:195:LEU:HD21	13:BA:232:ARG:CZ	2.50	0.41
13:BA:387:SER:HA	13:BA:390:THR:HB	2.01	0.41
14:BB:233:THR:HG23	35:BB:501:ADP:N7	2.34	0.41
15:BD:162:VAL:HB	15:BD:166:ASP:OD2	2.20	0.41
15:BD:173:GLN:OE1	15:BD:333:PHE:HA	2.20	0.41
17:BF:97:LEU:CD1	17:BF:120:LYS:CB	2.98	0.41
17:BF:153:VAL:HB	17:BF:160:ILE:HG13	2.01	0.41
17:BF:184:GLN:HG2	17:BF:186:SER:H	1.86	0.41
17:BF:231:THR:HG22	17:BF:233:LYS:H	1.85	0.41
18:BC:159:LYS:HA	18:BC:162:LYS:HE2	2.02	0.41
19:BG:89:SER:OG	25:BM:120:HIS:ND1	2.48	0.41
19:BG:195:VAL:O	19:BG:199:ILE:HD12	2.20	0.41
22:BJ:104:VAL:HG23	22:BJ:133:ILE:HG22	2.02	0.41
23:BK:228:MET:HG3	23:BK:229:PHE:N	2.29	0.41
26:BN:7:GLN:HA	26:BN:12:VAL:HA	2.01	0.41
26:BN:96:ALA:H	26:BN:116:MET:HG2	1.85	0.41
2:AV:186:LYS:NZ	2:AV:234:ARG:HD3	2.35	0.41
2:AV:302:TYR:O	2:AV:306:ARG:N	2.43	0.41
2:AV:475:ALA:HA	2:AV:478:GLN:OE1	2.21	0.41
9:Ac:71:ASP:HB2	9:Ac:104:ARG:NH1	2.35	0.41
12:Af:192:VAL:CG2	12:Af:193:PRO:HD3	2.50	0.41
12:Af:268:LEU:CB	12:Af:300:ARG:HH22	2.33	0.41
12:Af:282:PHE:HA	12:Af:285:CYS:SG	2.60	0.41
12:Af:745:LEU:HD13	12:Af:766:GLN:OE1	2.20	0.41
13:AA:83:ASP:HA	13:AA:86:THR:HB	2.01	0.41
17:AF:97:LEU:HD13	17:AF:120:LYS:CB	2.48	0.41
18:AC:131:VAL:HG13	18:AC:132:ASP:N	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:159:LYS:HA	18:AC:162:LYS:HE2	2.02	0.41
18:AC:273:MET:O	18:AC:277:LEU:HG	2.20	0.41
19:AG:183:VAL:HA	19:AG:189:TRP:HZ2	1.85	0.41
19:AG:212:PRO:HG3	19:AG:236:ASP:HB2	2.01	0.41
20:AH:72:ILE:HG23	20:AH:137:CYS:O	2.20	0.41
21:AI:168:SER:O	21:AI:172:VAL:HG23	2.20	0.41
25:AM:163:CYS:SG	25:AM:164:ALA:N	2.94	0.41
31:AS:150:ASP:HB3	31:AS:156:LYS:HD2	2.01	0.41
1:BU:444:TYR:CE1	1:BU:479:LEU:HD23	2.55	0.41
1:BU:500:ASN:HA	1:BU:503:GLN:HG2	2.02	0.41
2:BV:148:ARG:H	2:BV:148:ARG:HG2	1.69	0.41
3:BW:91:SER:HB2	3:BW:92:LYS:HA	2.02	0.41
4:BX:332:GLU:HA	4:BX:335:LEU:HB2	2.02	0.41
6:BZ:91:ILE:H	6:BZ:91:ILE:HG13	1.70	0.41
6:BZ:190:ARG:O	6:BZ:193:ASN:HB2	2.20	0.41
7:Ba:139:GLU:HA	7:Ba:142:LEU:HB3	2.01	0.41
9:Bc:250:GLU:HA	9:Bc:253:LYS:HD3	2.01	0.41
10:Bd:242:LEU:O	10:Bd:246:VAL:HG23	2.21	0.41
12:Bf:232:TYR:HD2	12:Bf:233:LEU:HD12	1.85	0.41
12:Bf:268:LEU:CG	12:Bf:300:ARG:HH22	2.33	0.41
12:Bf:411:ALA:HA	12:Bf:493:ASN:HB2	2.03	0.41
12:Bf:504:VAL:HG13	12:Bf:519:ALA:HB2	2.01	0.41
12:Bf:509:LYS:HB3	12:Bf:511:SER:O	2.20	0.41
12:Bf:747:GLN:HA	12:Bf:750:GLN:CB	2.50	0.41
12:Bf:797:LEU:HA	12:Bf:798:THR:C	2.46	0.41
12:Bf:848:GLN:HA	12:Bf:851:ASP:CB	2.48	0.41
13:BA:283:ALA:HA	13:BA:284:ARG:HA	1.75	0.41
14:BB:333:ARG:HG2	14:BB:335:GLU:H	1.86	0.41
14:BB:380:LEU:HD12	14:BB:381:ASP:N	2.35	0.41
15:BD:62:LYS:O	15:BD:66:LYS:HG3	2.20	0.41
15:BD:314:ALA:HA	15:BD:317:LEU:HG	2.02	0.41
17:BF:381:TYR:HA	17:BF:384:LEU:HD11	2.02	0.41
18:BC:239:ARG:NH1	18:BC:284:GLU:OE1	2.54	0.41
18:BC:249:ASP:HA	18:BC:250:GLU:HA	1.63	0.41
19:BG:18:PRO:HA	20:BH:24:TYR:CZ	2.54	0.41
22:BJ:18:GLN:HA	22:BJ:21:TYR:HD2	1.85	0.41
24:BL:159:MET:HE3	24:BL:169:ARG:HH21	1.86	0.41
24:BL:196:ARG:HE	24:BL:239:ARG:HH21	1.69	0.41
25:BM:229:LYS:NZ	25:BM:235:ALA:H	2.17	0.41
29:BQ:4:LEU:HD22	29:BQ:17:SER:HA	2.02	0.41
29:BQ:29:LYS:HD3	29:BQ:32:HIS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:567:ILE:HD11	1:AU:585:THR:HB	2.02	0.41
2:AV:241:ARG:HG3	2:AV:242:HIS:N	2.35	0.41
2:AV:279:GLN:HB2	2:AV:285:TRP:CG	2.55	0.41
3:AW:40:LEU:HB2	3:AW:41:GLN:CA	2.41	0.41
4:AX:53:LEU:O	4:AX:57:LEU:HG	2.21	0.41
7:Aa:112:ILE:H	7:Aa:112:ILE:HG13	1.69	0.41
7:Aa:186:LYS:NZ	7:Aa:221:VAL:HB	2.35	0.41
7:Aa:270:ARG:HH22	7:Aa:274:LEU:N	2.18	0.41
9:Ac:250:GLU:HA	9:Ac:253:LYS:HD3	2.01	0.41
10:Ad:242:LEU:O	10:Ad:246:VAL:HG23	2.21	0.41
12:Af:232:TYR:HD2	12:Af:233:LEU:HD12	1.85	0.41
12:Af:268:LEU:HG	12:Af:300:ARG:HH22	1.85	0.41
12:Af:776:LEU:N	12:Af:777:THR:C	2.78	0.41
13:AA:387:SER:HA	13:AA:390:THR:HB	2.01	0.41
14:AB:150:VAL:HA	14:AB:162:VAL:HG12	2.01	0.41
14:AB:296:ASP:OD2	18:AC:268:GLU:HG3	2.21	0.41
14:AB:383:LEU:C	14:AB:387:LYS:HZ3	2.28	0.41
15:AD:241:GLY:O	15:AD:244:PRO:HD2	2.21	0.41
16:AE:289:LEU:O	16:AE:295:LEU:HB2	2.20	0.41
17:AF:235:LEU:O	17:AF:239:ALA:HB2	2.21	0.41
17:AF:345:SER:HA	17:AF:349:ASP:HB2	2.01	0.41
23:AK:211:ASN:OD1	23:AK:214:ASN:N	2.51	0.41
23:AK:225:ASN:OD1	23:AK:225:ASN:N	2.52	0.41
29:AQ:170:ARG:HH11	29:BQ:22:ALA:HB2	1.82	0.41
1:BU:12:LEU:HB2	1:BU:44:LYS:HE3	2.02	0.41
1:BU:364:VAL:HG12	1:BU:728:PHE:CD1	2.55	0.41
2:BV:160:LEU:HD22	2:BV:213:TYR:CD2	2.56	0.41
2:BV:194:LYS:O	2:BV:195:ILE:HD13	2.21	0.41
2:BV:363:LEU:O	2:BV:367:VAL:HG23	2.20	0.41
2:BV:372:LEU:HD13	2:BV:426:LEU:O	2.21	0.41
3:BW:192:LEU:O	3:BW:196:VAL:HG23	2.20	0.41
3:BW:254:PRO:HA	3:BW:257:GLN:HB2	2.02	0.41
4:BX:207:GLN:NE2	4:BX:211:ASP:OD1	2.45	0.41
5:BY:53:TYR:CD1	5:BY:53:TYR:C	2.97	0.41
6:BZ:41:GLY:HA3	6:BZ:92:VAL:HB	2.02	0.41
6:BZ:241:SER:HB3	6:BZ:245:PHE:HB3	2.02	0.41
7:Ba:34:TRP:CH2	7:Ba:67:PHE:HE1	2.38	0.41
7:Ba:144:ASN:HA	7:Ba:145:LEU:HA	1.58	0.41
7:Ba:237:LEU:HD23	7:Ba:237:LEU:HA	1.92	0.41
10:Bd:39:THR:HG23	10:Bd:86:LYS:HE3	2.03	0.41
12:Bf:370:MET:SD	12:Bf:399:LEU:HB3	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:516:GLY:HA2	12:Bf:519:ALA:HB3	2.01	0.41
12:Bf:763:ARG:HH11	12:Bf:804:LEU:HD13	1.86	0.41
14:BB:123:VAL:O	14:BB:130:GLU:HA	2.20	0.41
15:BD:47:LEU:HD12	18:BC:25:LEU:HB3	2.02	0.41
15:BD:194:ILE:HD12	15:BD:196:ILE:HD13	2.02	0.41
15:BD:373:ALA:HA	15:BD:374:ASP:HB3	2.03	0.41
18:BC:381:GLU:O	18:BC:385:MET:HG2	2.21	0.41
21:BI:145:PHE:CZ	21:BI:218:ARG:HB2	2.42	0.41
23:BK:195:ILE:O	23:BK:198:SER:OG	2.36	0.41
26:BN:33:LYS:O	26:BN:44:CYS:HA	2.21	0.41
31:BS:12:ILE:HD11	31:BS:54:CYS:C	2.45	0.41
32:BT:112:ILE:O	32:BT:123:GLY:N	2.39	0.41
32:BT:187:PHE:CE2	32:BT:205:THR:HG23	2.55	0.41
2:AV:99:ARG:HG3	2:AV:143:ALA:O	2.20	0.41
2:AV:392:TYR:O	2:AV:395:ILE:HG22	2.19	0.41
5:AY:182:VAL:HG11	5:AY:213:LEU:HD22	2.02	0.41
5:AY:210:SER:HB3	5:AY:213:LEU:HG	2.02	0.41
5:AY:221:THR:O	5:AY:224:VAL:HG12	2.20	0.41
7:Aa:112:ILE:HD13	7:Aa:151:VAL:HG21	2.02	0.41
8:Ab:116:PRO:HA	8:Ab:146:GLU:HG3	2.01	0.41
9:Ac:53:VAL:HG22	9:Ac:114:SER:HB2	2.01	0.41
9:Ac:65:TYR:HD1	9:Ac:66:THR:HG23	1.85	0.41
9:Ac:278:GLN:HA	9:Ac:279:ASP:CB	2.48	0.41
12:Af:243:PRO:HA	12:Af:246:SER:HB2	2.02	0.41
12:Af:390:LEU:HG	12:Af:408:LEU:HD22	2.02	0.41
12:Af:848:GLN:HA	12:Af:851:ASP:CB	2.48	0.41
13:AA:195:LEU:HD21	13:AA:232:ARG:CZ	2.50	0.41
13:AA:258:ARG:NH2	17:AF:255:GLN:HE22	2.19	0.41
15:AD:130:VAL:HG21	15:AD:139:LEU:HD22	2.03	0.41
15:AD:177:VAL:O	15:AD:181:VAL:HB	2.19	0.41
15:AD:261:ILE:HG12	15:AD:306:LYS:HB2	2.02	0.41
17:AF:153:VAL:HB	17:AF:160:ILE:HG13	2.01	0.41
18:AC:162:LYS:O	18:AC:166:GLU:CB	2.61	0.41
23:AK:98:ASN:O	23:AK:101:PHE:HB2	2.21	0.41
25:AM:152:ASP:OD1	25:AM:156:VAL:N	2.49	0.41
25:AM:173:LYS:HA	25:AM:176:ILE:CD1	2.50	0.41
26:AN:45:ARG:HD2	26:AN:52:THR:OG1	2.21	0.41
28:AP:93:ASN:O	28:AP:97:GLU:HG3	2.21	0.41
28:AP:169:GLN:CD	31:BS:157:ASN:O	2.63	0.41
29:AQ:3:TYR:CG	29:AQ:4:LEU:N	2.89	0.41
29:AQ:186:ASN:HB2	29:AQ:189:HIS:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AS:185:ARG:NH2	28:BP:147:TYR:HD1	1.86	0.41
31:AS:185:ARG:CD	28:BP:147:TYR:CD1	2.96	0.41
32:AT:187:PHE:CE2	32:AT:205:THR:HG23	2.55	0.41
1:BU:57:ARG:HG3	1:BU:58:GLN:N	2.36	0.41
1:BU:397:THR:OG1	1:BU:398:ASN:N	2.54	0.41
2:BV:475:ALA:HA	2:BV:478:GLN:OE1	2.21	0.41
6:BZ:17:LEU:HD22	9:Bc:36:LEU:HB3	2.03	0.41
7:Ba:33:LEU:O	7:Ba:33:LEU:HD12	2.21	0.41
7:Ba:341:LEU:HD23	7:Ba:346:ILE:HG13	2.03	0.41
10:Bd:45:LYS:O	10:Bd:49:ILE:HG12	2.20	0.41
12:Bf:448:CYS:HA	12:Bf:806:VAL:HG21	2.02	0.41
12:Bf:483:PHE:CE2	12:Bf:487:LEU:HD22	2.55	0.41
12:Bf:722:SER:O	12:Bf:726:ILE:HG22	2.21	0.41
15:BD:130:VAL:HG21	15:BD:139:LEU:HD22	2.03	0.41
15:BD:228:ILE:HB	15:BD:262:ILE:HA	2.01	0.41
16:BE:114:GLU:N	16:BE:221:TYR:OH	2.54	0.41
17:BF:86:LEU:HB2	17:BF:88:TYR:CD1	2.56	0.41
17:BF:344:ARG:HG2	17:BF:345:SER:N	2.36	0.41
21:BI:168:SER:O	21:BI:172:VAL:HG23	2.20	0.41
22:BJ:168:VAL:O	22:BJ:172:LEU:HG	2.20	0.41
32:BT:27:LEU:HD22	32:BT:184:TYR:HB3	2.02	0.41
1:AU:396:ALA:HB1	1:AU:400:ALA:CB	2.50	0.41
2:AV:156:SER:O	2:AV:160:LEU:HG	2.21	0.41
2:AV:160:LEU:HD22	2:AV:213:TYR:CD2	2.56	0.41
2:AV:194:LYS:O	2:AV:195:ILE:HD13	2.21	0.41
2:AV:245:ASP:OD2	2:AV:281:ASN:ND2	2.51	0.41
3:AW:268:LYS:HE2	3:AW:301:LYS:HE2	2.03	0.41
5:AY:177:ARG:HH22	18:AC:337:ASN:CG	2.29	0.41
6:AZ:17:LEU:HD22	9:Ac:36:LEU:HB3	2.03	0.41
6:AZ:127:LYS:HE2	6:AZ:127:LYS:HB2	1.83	0.41
9:Ac:213:GLU:HA	9:Ac:216:MET:HG2	2.03	0.41
13:AA:344:SER:N	13:AA:345:LEU:HB2	2.35	0.41
15:AD:401:LYS:HA	15:AD:404:LYS:HG2	2.03	0.41
16:AE:159:PHE:N	16:AE:159:PHE:CD1	2.88	0.41
16:AE:207:TYR:HD1	16:AE:208:ILE:HD13	1.85	0.41
16:AE:261:LEU:HD21	16:AE:289:LEU:HG	2.03	0.41
18:AC:214:VAL:N	18:AC:247:PHE:O	2.47	0.41
18:AC:308:PRO:HG2	18:AC:310:ARG:HG2	2.01	0.41
20:AH:105:ILE:HG23	20:AH:110:LEU:HD11	2.03	0.41
21:AI:180:LYS:HB2	21:AI:183:GLU:OE1	2.21	0.41
24:AL:104:PRO:HG2	24:AL:107:ARG:HH11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:203:ARG:NH2	28:AP:155:GLU:OE1	2.37	0.41
5:BY:275:LEU:HD23	5:BY:275:LEU:O	2.20	0.41
7:Ba:270:ARG:HH22	7:Ba:274:LEU:N	2.18	0.41
9:Bc:65:TYR:HD1	9:Bc:66:THR:HG23	1.85	0.41
9:Bc:71:ASP:HB2	9:Bc:104:ARG:NH1	2.35	0.41
12:Bf:268:LEU:HG	12:Bf:300:ARG:HH22	1.85	0.41
12:Bf:404:ASP:O	12:Bf:407:MET:HG2	2.20	0.41
12:Bf:822:VAL:HA	12:Bf:823:ALA:HA	1.59	0.41
14:BB:365:PHE:CE2	14:BB:380:LEU:HB3	2.54	0.41
15:BD:261:ILE:HG12	15:BD:306:LYS:HB2	2.02	0.41
15:BD:274:ARG:NH1	15:BD:276:ASP:OD2	2.54	0.41
16:BE:244:SER:HB3	17:BF:299:GLU:HB2	2.02	0.41
18:BC:269:VAL:O	18:BC:272:THR:HB	2.20	0.41
18:BC:273:MET:O	18:BC:277:LEU:HG	2.20	0.41
20:BH:72:ILE:HG23	20:BH:137:CYS:O	2.20	0.41
23:BK:99:HIS:HB2	23:BK:107:MET:HE3	2.03	0.41
24:BL:65:HIS:N	24:BL:223:ILE:HD11	2.35	0.41
24:BL:93:LEU:O	24:BL:97:PHE:HB2	2.19	0.41
31:BS:40:SER:O	31:BS:42:LYS:HD2	2.21	0.41
32:BT:4:PRO:HB3	32:BT:56:ASP:HB2	2.03	0.41
1:AU:366:HIS:ND1	1:AU:396:ALA:HA	2.36	0.41
1:AU:444:TYR:CE1	1:AU:479:LEU:HD23	2.55	0.41
1:AU:479:LEU:CD1	1:AU:511:ALA:HA	2.51	0.41
2:AV:31:ALA:O	2:AV:35:VAL:HG22	2.21	0.41
3:AW:360:GLU:C	3:AW:364:ARG:HH11	2.29	0.41
4:AX:391:PRO:HG2	4:AX:392:PRO:HD3	2.03	0.41
5:AY:215:ASP:OD2	5:AY:218:THR:HG23	2.20	0.41
12:Af:188:VAL:HG12	12:Af:192:VAL:HG13	2.03	0.41
12:Af:457:ASN:HA	12:Af:458:GLU:HA	1.87	0.41
13:AA:121:PHE:HA	17:AF:88:TYR:O	2.20	0.41
13:AA:303:ILE:HG21	13:AA:332:MET:HG3	2.03	0.41
14:AB:333:ARG:HG2	14:AB:335:GLU:H	1.85	0.41
15:AD:151:ILE:CB	15:AD:152:MET:HA	2.44	0.41
15:AD:154:LEU:HD23	15:AD:155:THR:N	2.36	0.41
15:AD:411:GLU:HA	15:AD:412:GLN:HA	1.72	0.41
34:AE:401:ATP:H4'	17:AF:344:ARG:HE	1.84	0.41
17:AF:184:GLN:HG2	17:AF:186:SER:H	1.86	0.41
17:AF:344:ARG:HG2	17:AF:345:SER:N	2.36	0.41
17:AF:360:GLU:O	17:AF:364:ARG:HG3	2.20	0.41
18:AC:191:PRO:HA	18:AC:192:PRO:HD2	1.97	0.41
22:AJ:180:ALA:HA	22:AJ:181:ILE:HA	1.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AO:114:TYR:HE1	27:AO:127:MET:HE1	1.85	0.41
28:AP:172:LEU:HB3	31:BS:157:ASN:HB3	2.01	0.41
32:AT:97:TYR:CD1	32:AT:100:ARG:HD3	2.56	0.41
1:BU:264:VAL:HG22	1:BU:268:LEU:HD22	2.02	0.41
1:BU:474:ARG:NH2	1:BU:500:ASN:HB2	2.25	0.41
3:BW:121:LYS:HG3	3:BW:122:LEU:HD12	2.02	0.41
3:BW:127:THR:HA	3:BW:130:MET:HG2	2.02	0.41
4:BX:243:ASP:OD1	4:BX:245:PRO:HD2	2.20	0.41
5:BY:85:ASP:HA	5:BY:88:LEU:CD2	2.50	0.41
5:BY:232:GLU:O	5:BY:236:LEU:N	2.43	0.41
5:BY:267:ARG:HG3	5:BY:270:VAL:HG12	2.01	0.41
7:Ba:35:HIS:HE1	8:Bb:17:ARG:HB2	1.85	0.41
9:Bc:121:TRP:HB3	9:Bc:192:LEU:HD21	2.02	0.41
9:Bc:213:GLU:HA	9:Bc:216:MET:HG2	2.03	0.41
12:Bf:180:GLN:O	12:Bf:184:LEU:HG	2.20	0.41
12:Bf:247:ALA:O	12:Bf:251:CYS:HB3	2.21	0.41
12:Bf:604:GLY:H	12:Bf:635:LYS:CG	2.34	0.41
13:BA:313:GLY:C	13:BA:315:ILE:N	2.78	0.41
14:BB:296:ASP:OD2	18:BC:268:GLU:HG3	2.21	0.41
16:BE:371:VAL:O	16:BE:375:ALA:HB3	2.20	0.41
18:BC:21:ARG:HD3	18:BC:21:ARG:HA	1.90	0.41
23:BK:14:THR:HG23	24:BL:21:GLN:OE1	2.20	0.41
24:BL:85:CYS:SG	24:BL:89:ARG:NH2	2.93	0.41
29:BQ:17:SER:OG	29:BQ:179:SER:OG	2.39	0.41
29:BQ:86:ARG:HD3	29:BQ:86:ARG:HA	1.85	0.41
1:AU:521:LEU:HB2	1:AU:554:LEU:HD21	2.03	0.41
2:AV:269:LYS:HB3	2:AV:273:LYS:NZ	2.36	0.41
2:AV:275:VAL:O	2:AV:285:TRP:HH2	2.04	0.41
3:AW:397:VAL:HG11	4:AX:341:PRO:HB3	2.03	0.41
4:AX:126:ARG:HH22	4:AX:156:GLU:HG3	1.85	0.41
4:AX:243:ASP:OD1	4:AX:245:PRO:HD2	2.20	0.41
6:AZ:241:SER:HB3	6:AZ:245:PHE:HB3	2.02	0.41
7:Aa:337:GLN:HE21	7:Aa:339:ARG:NH1	2.18	0.41
8:Ab:154:THR:HA	8:Ab:170:LEU:HD23	2.03	0.41
10:Ad:134:LYS:HA	10:Ad:137:VAL:HG22	2.02	0.41
10:Ad:175:ARG:HA	10:Ad:178:ILE:HD13	2.02	0.41
12:Af:370:MET:SD	12:Af:399:LEU:HB3	2.61	0.41
12:Af:411:ALA:HA	12:Af:493:ASN:HB2	2.03	0.41
12:Af:702:PRO:O	12:Af:706:ILE:HG12	2.21	0.41
13:AA:248:LYS:HG2	14:AB:261:GLY:C	2.45	0.41
14:AB:190:LEU:O	14:AB:194:ILE:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AB:230:THR:HA	35:AB:501:ADP:O1A	2.20	0.41
14:AB:300:GLY:HA2	14:AB:301:GLY:HA2	1.77	0.41
16:AE:114:GLU:N	16:AE:221:TYR:OH	2.54	0.41
17:AF:231:THR:HG22	17:AF:233:LYS:H	1.85	0.41
17:AF:241:ALA:O	17:AF:244:THR:OG1	2.37	0.41
17:AF:344:ARG:HB3	17:AF:347:ARG:HB2	2.01	0.41
18:AC:84:LYS:HA	18:AC:98:ASP:HA	2.02	0.41
18:AC:85:VAL:N	18:AC:97:VAL:O	2.52	0.41
18:AC:291:VAL:HB	18:AC:293:MET:HE1	2.01	0.41
18:AC:295:THR:HB	18:AC:300:ILE:CD1	2.51	0.41
19:AG:28:ALA:HA	19:AG:31:ALA:HB3	2.03	0.41
19:AG:116:LYS:HE2	19:AG:116:LYS:HB3	1.74	0.41
19:AG:152:TYR:CD1	19:AG:162:GLY:HA3	2.56	0.41
23:AK:65:GLU:OE1	23:AK:65:GLU:N	2.54	0.41
23:AK:66:LYS:C	23:AK:67:ILE:HD12	2.45	0.41
24:AL:211:SER:C	24:AL:212:ILE:HD12	2.45	0.41
25:AM:228:PRO:HB2	25:AM:231:ILE:HG12	2.02	0.41
26:AN:103:TRP:CH2	26:AN:105:PRO:HA	2.56	0.41
27:AO:24:MET:SD	31:BS:187:VAL:CG2	3.09	0.41
27:AO:172:ASN:HA	27:AO:192:PRO:HD2	2.03	0.41
28:AP:147:TYR:CD1	31:BS:185:ARG:CD	2.95	0.41
28:AP:189:ILE:HG23	28:AP:196:THR:HB	2.03	0.41
31:AS:99:ARG:O	31:AS:101:PHE:N	2.54	0.41
31:AS:159:GLN:O	27:BO:208:THR:HA	2.21	0.41
32:AT:5:MET:O	32:AT:7:THR:HG23	2.19	0.41
1:BU:32:ASN:ND2	2:BV:229:SER:OG	2.54	0.41
1:BU:612:ASP:HB3	1:BU:647:HIS:CD2	2.56	0.41
2:BV:96:ARG:HA	2:BV:98:LEU:HB2	2.03	0.41
2:BV:269:LYS:HB3	2:BV:273:LYS:NZ	2.36	0.41
2:BV:296:LYS:HZ1	2:BV:308:THR:HG21	1.86	0.41
3:BW:112:VAL:HB	3:BW:120:ILE:HD13	2.03	0.41
4:BX:53:LEU:O	4:BX:57:LEU:HG	2.21	0.41
4:BX:368:MET:HB3	4:BX:374:PHE:HB3	2.02	0.41
5:BY:80:GLU:HA	5:BY:83:ARG:HG2	2.02	0.41
5:BY:221:THR:O	5:BY:224:VAL:HG12	2.20	0.41
5:BY:363:ASN:HD22	5:BY:363:ASN:HA	1.71	0.41
6:BZ:77:ASN:O	6:BZ:81:MET:HG3	2.20	0.41
7:Ba:96:PHE:O	7:Ba:100:THR:HG23	2.20	0.41
7:Ba:186:LYS:NZ	7:Ba:221:VAL:HB	2.35	0.41
8:Bb:53:THR:HG22	8:Bb:59:GLU:O	2.21	0.41
8:Bb:116:PRO:HA	8:Bb:146:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bc:41:MET:HE1	9:Bc:112:TYR:CG	2.56	0.41
10:Bd:190:LEU:HD23	10:Bd:191:PHE:N	2.36	0.41
12:Bf:167:ALA:O	12:Bf:202:HIS:NE2	2.54	0.41
12:Bf:221:ILE:O	12:Bf:225:ALA:N	2.53	0.41
12:Bf:248:LEU:HD11	12:Bf:285:CYS:SG	2.60	0.41
12:Bf:268:LEU:CB	12:Bf:300:ARG:HH22	2.33	0.41
12:Bf:282:PHE:HA	12:Bf:285:CYS:SG	2.61	0.41
12:Bf:400:TYR:CG	12:Bf:403:LYS:HE3	2.55	0.41
12:Bf:556:ARG:HG2	12:Bf:592:ASN:HA	2.02	0.41
12:Bf:759:LEU:H	12:Bf:759:LEU:CD1	2.33	0.41
12:Bf:806:VAL:O	12:Bf:809:ILE:HG13	2.21	0.41
13:BA:206:ILE:HG23	13:BA:207:GLU:N	2.36	0.41
14:BB:150:VAL:HA	14:BB:162:VAL:HG12	2.01	0.41
14:BB:190:LEU:O	14:BB:194:ILE:N	2.46	0.41
14:BB:193:GLN:HE21	14:BB:351:ILE:HD13	1.86	0.41
14:BB:268:ARG:HA	14:BB:315:GLN:NE2	2.34	0.41
15:BD:401:LYS:HA	15:BD:404:LYS:HG2	2.03	0.41
16:BE:40:TYR:O	16:BE:43:SER:OG	2.30	0.41
16:BE:131:SER:O	16:BE:135:ILE:HG23	2.20	0.41
17:BF:90:VAL:O	17:BF:127:SER:OG	2.25	0.41
17:BF:235:LEU:O	17:BF:239:ALA:HB2	2.21	0.41
17:BF:344:ARG:HD2	17:BF:347:ARG:HH21	1.85	0.41
18:BC:172:PRO:O	18:BC:175:PHE:HB2	2.21	0.41
18:BC:267:SER:O	18:BC:271:ARG:HB2	2.20	0.41
18:BC:277:LEU:O	18:BC:281:ASP:CB	2.68	0.41
21:BI:43:VAL:HG12	21:BI:216:LEU:HB3	2.03	0.41
22:BJ:180:ALA:HA	22:BJ:181:ILE:HA	1.46	0.41
23:BK:71:ASP:CG	23:BK:72:ALA:H	2.29	0.41
23:BK:98:ASN:O	23:BK:101:PHE:HB2	2.21	0.41
23:BK:167:ALA:O	23:BK:181:LEU:HD21	2.21	0.41
25:BM:173:LYS:HA	25:BM:176:ILE:CD1	2.50	0.41
25:BM:228:PRO:HB2	25:BM:231:ILE:HG12	2.02	0.41
26:BN:45:ARG:HD2	26:BN:52:THR:OG1	2.21	0.41
28:BP:93:ASN:O	28:BP:97:GLU:HG3	2.20	0.41
29:BQ:26:VAL:HG11	30:BR:133:VAL:HG12	2.03	0.41
31:BS:150:ASP:HB3	31:BS:156:LYS:HD2	2.02	0.41
32:BT:11:VAL:HG13	32:BT:24:ALA:HB2	2.03	0.41
1:AU:361:ARG:NH1	1:AU:727:LYS:HG3	2.36	0.41
1:AU:371:ILE:HD12	1:AU:371:ILE:HA	1.92	0.41
2:AV:262:SER:HB2	2:AV:263:LEU:HB2	2.03	0.41
2:AV:318:GLN:O	2:AV:319:HIS:CG	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:123:ARG:NH1	3:AW:127:THR:HB	2.28	0.41
3:AW:335:SER:OG	3:AW:336:PRO:HD3	2.21	0.41
4:AX:344:ARG:HA	4:AX:385:LEU:O	2.21	0.41
4:AX:371:ASP:C	4:AX:373:LYS:H	2.28	0.41
5:AY:221:THR:HA	5:AY:224:VAL:HG12	2.03	0.41
5:AY:275:LEU:O	5:AY:275:LEU:HD23	2.20	0.41
6:AZ:266:ILE:O	6:AZ:270:VAL:HG23	2.21	0.41
12:Af:448:CYS:HA	12:Af:806:VAL:HG21	2.02	0.41
14:AB:288:ASP:O	14:AB:291:GLY:N	2.54	0.41
14:AB:419:PHE:O	14:AB:423:LYS:CB	2.69	0.41
14:AB:425:ASN:O	14:AB:429:LYS:CB	2.64	0.41
15:AD:373:ALA:HA	15:AD:374:ASP:HB3	2.02	0.41
16:AE:244:SER:HB3	17:AF:299:GLU:HB2	2.02	0.41
17:AF:406:ILE:HD13	17:AF:422:GLU:CD	2.46	0.41
20:AH:20:VAL:HG12	20:AH:24:TYR:CE2	2.56	0.41
31:AS:144:MET:HE3	28:BP:147:TYR:N	2.22	0.41
31:AS:158:MET:HE2	31:AS:158:MET:HB3	2.00	0.41
1:BU:680:VAL:HB	1:BU:683:VAL:HG12	2.03	0.41
2:BV:318:GLN:O	2:BV:319:HIS:CG	2.74	0.41
3:BW:360:GLU:C	3:BW:364:ARG:HH11	2.29	0.41
4:BX:221:GLU:HB3	4:BX:223:LYS:HG2	2.02	0.41
5:BY:95:LEU:HD12	5:BY:95:LEU:HA	1.87	0.41
5:BY:101:ARG:HH21	5:BY:126:LYS:HG3	1.86	0.41
12:Bf:288:VAL:HG13	12:Bf:289:VAL:N	2.36	0.41
12:Bf:683:GLU:HB2	12:Bf:684:PRO:HD2	2.03	0.41
14:BB:419:PHE:O	14:BB:423:LYS:CB	2.69	0.41
15:BD:98:GLN:O	15:BD:99:ASN:HB2	2.21	0.41
15:BD:100:THR:HG21	15:BD:112:TYR:OH	2.20	0.41
16:BE:159:PHE:N	16:BE:159:PHE:CD1	2.88	0.41
16:BE:289:LEU:O	16:BE:295:LEU:HB2	2.20	0.41
16:BE:338:PHE:CZ	16:BE:375:ALA:HB1	2.56	0.41
17:BF:169:ASP:N	17:BF:173:LYS:HB2	2.36	0.41
18:BC:42:LEU:HA	18:BC:45:LEU:HD13	2.03	0.41
20:BH:20:VAL:HG12	20:BH:24:TYR:CE2	2.56	0.41
23:BK:65:GLU:N	23:BK:65:GLU:OE1	2.54	0.41
23:BK:66:LYS:C	23:BK:67:ILE:HD12	2.46	0.41
23:BK:79:SER:O	23:BK:139:VAL:HG23	2.20	0.41
27:BO:172:ASN:HA	27:BO:192:PRO:HD2	2.03	0.41
32:BT:97:TYR:CD1	32:BT:100:ARG:HD3	2.56	0.41
1:AU:32:ASN:ND2	2:AV:229:SER:OG	2.54	0.40
2:AV:224:LEU:O	2:AV:228:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AW:213:PHE:CZ	3:AW:227:TYR:HE1	2.39	0.40
3:AW:268:LYS:HA	3:AW:271:VAL:HG12	2.04	0.40
5:AY:312:ARG:HA	5:AY:356:THR:HG22	2.04	0.40
9:Ac:41:MET:HE1	9:Ac:112:TYR:CG	2.56	0.40
11:Ae:6:GLN:N	11:Ae:7:PRO:HD2	2.36	0.40
12:Af:254:GLY:HA2	12:Af:257:ARG:HE	1.86	0.40
12:Af:351:THR:OG1	12:Af:353:LEU:HD22	2.21	0.40
12:Af:400:TYR:CG	12:Af:403:LYS:HE3	2.55	0.40
12:Af:590:PHE:HB2	12:Af:623:LYS:HE2	2.02	0.40
12:Af:604:GLY:H	12:Af:635:LYS:CG	2.34	0.40
14:AB:220:LYS:HB3	14:AB:346:ARG:CZ	2.50	0.40
15:AD:170:MET:HE2	15:AD:333:PHE:CD1	2.56	0.40
15:AD:263:PHE:HD1	15:AD:308:ILE:HG13	1.86	0.40
15:AD:274:ARG:NH1	15:AD:276:ASP:OD2	2.54	0.40
16:AE:288:ALA:O	16:AE:294:ARG:HD2	2.22	0.40
17:AF:84:LYS:HA	17:AF:161:LEU:CD2	2.30	0.40
18:AC:42:LEU:HA	18:AC:45:LEU:HD13	2.03	0.40
18:AC:117:ARG:NH1	18:AC:124:HIS:HD2	2.19	0.40
18:AC:197:THR:HG23	18:AC:213:ARG:NH1	2.35	0.40
18:AC:327:ASP:O	18:AC:331:ILE:HG12	2.19	0.40
22:AJ:168:VAL:O	22:AJ:172:LEU:HG	2.20	0.40
23:AK:186:HIS:CE1	23:AK:188:SER:HG	2.38	0.40
23:AK:225:ASN:HA	23:AK:226:PHE:HA	1.89	0.40
24:AL:65:HIS:N	24:AL:223:ILE:HD11	2.35	0.40
27:AO:132:LEU:CD1	32:BT:144:TYR:CB	2.98	0.40
27:AO:195:LYS:HG2	31:BS:180:ILE:HG21	2.03	0.40
28:AP:123:SER:HB3	28:AP:137:VAL:HB	2.03	0.40
29:AQ:137:PHE:O	30:BR:134:TYR:CD1	2.67	0.40
32:AT:11:VAL:HG13	32:AT:24:ALA:HB2	2.03	0.40
1:BU:479:LEU:CD1	1:BU:511:ALA:HA	2.51	0.40
3:BW:86:ASN:CB	3:BW:88:MET:HG3	2.51	0.40
3:BW:268:LYS:HE2	3:BW:301:LYS:HE2	2.03	0.40
6:BZ:266:ILE:O	6:BZ:270:VAL:HG23	2.21	0.40
7:Ba:245:VAL:HG22	7:Ba:247:ARG:N	2.37	0.40
7:Ba:302:ILE:HD12	7:Ba:302:ILE:HA	1.97	0.40
10:Bd:225:PHE:HA	10:Bd:226:ALA:HA	1.78	0.40
12:Bf:192:VAL:CG2	12:Bf:193:PRO:HD3	2.51	0.40
12:Bf:530:CYS:SG	12:Bf:566:HIS:NE2	2.87	0.40
12:Bf:730:GLY:HA2	12:Bf:764:LEU:HD21	2.03	0.40
12:Bf:809:ILE:HB	12:Bf:813:LYS:HG2	2.03	0.40
12:Bf:846:VAL:O	12:Bf:850:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BA:241:ILE:HG22	14:BB:314:ASN:HD21	1.86	0.40
14:BB:423:LYS:HZ3	14:BB:427:LEU:HB2	1.86	0.40
16:BE:312:ILE:O	16:BE:315:ILE:HG13	2.20	0.40
17:BF:251:LEU:HD12	17:BF:252:ALA:H	1.85	0.40
18:BC:193:GLY:H	18:BC:355:SER:CB	2.35	0.40
19:BG:80:MET:HG3	19:BG:87:SER:HB2	2.03	0.40
26:BN:103:TRP:CH2	26:BN:105:PRO:HA	2.56	0.40
28:BP:56:LEU:O	28:BP:60:VAL:HG23	2.20	0.40
28:BP:189:ILE:HG23	28:BP:196:THR:HB	2.03	0.40
29:BQ:22:ALA:HB1	29:BQ:26:VAL:O	2.21	0.40
2:AV:63:SER:O	2:AV:66:GLU:HB3	2.21	0.40
3:AW:243:ILE:HB	3:AW:247:TYR:CD1	2.57	0.40
10:Ad:190:LEU:HD23	10:Ad:191:PHE:N	2.36	0.40
10:Ad:233:GLU:HB2	10:Ad:235:THR:HG23	2.04	0.40
12:Af:759:LEU:H	12:Af:759:LEU:CD1	2.33	0.40
12:Af:806:VAL:O	12:Af:809:ILE:HG13	2.21	0.40
15:AD:53:PHE:O	15:AD:57:GLN:HG2	2.22	0.40
15:AD:314:ALA:HA	15:AD:317:LEU:HG	2.02	0.40
17:AF:381:TYR:HA	17:AF:384:LEU:HD11	2.02	0.40
18:AC:193:GLY:H	18:AC:355:SER:CB	2.35	0.40
18:AC:239:ARG:NH1	18:AC:284:GLU:OE1	2.54	0.40
22:AJ:172:LEU:HA	22:AJ:175:ASN:CB	2.52	0.40
23:AK:167:ALA:O	23:AK:181:LEU:HD21	2.21	0.40
24:AL:146:GLN:HE21	24:AL:154:PHE:HD2	1.68	0.40
24:AL:189:LYS:HZ3	24:AL:193:ARG:HH22	1.70	0.40
24:AL:215:VAL:HB	24:AL:221:PHE:CD1	2.55	0.40
24:AL:231:PRO:O	24:AL:234:GLU:HG2	2.22	0.40
25:AM:43:ASP:OD1	25:AM:186:CYS:SG	2.79	0.40
25:AM:94:GLU:OE2	25:AM:114:ARG:NE	2.55	0.40
28:AP:44:PRO:HA	28:AP:50:TYR:CD1	2.57	0.40
29:AQ:22:ALA:HB1	29:AQ:26:VAL:O	2.21	0.40
1:BU:221:ILE:HB	1:BU:754:HIS:HB2	2.03	0.40
2:BV:33:GLN:NE2	2:BV:118:GLN:OE1	2.54	0.40
4:BX:344:ARG:HA	4:BX:385:LEU:O	2.21	0.40
5:BY:182:VAL:HG11	5:BY:213:LEU:HD22	2.02	0.40
6:BZ:190:ARG:HH22	7:Ba:374:ILE:HG13	1.86	0.40
7:Ba:287:ASN:HA	7:Ba:288:HIS:C	2.47	0.40
8:Bb:154:THR:HA	8:Bb:170:LEU:HD23	2.03	0.40
12:Bf:211:ILE:CG1	12:Bf:223:GLU:HG2	2.51	0.40
12:Bf:621:ASP:C	12:Bf:623:LYS:N	2.80	0.40
14:BB:264:PRO:HG3	14:BB:311:GLU:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BD:289:LEU:HD21	15:BD:321:LEU:HD11	2.03	0.40
17:BF:406:ILE:HD13	17:BF:422:GLU:CD	2.46	0.40
18:BC:385:MET:O	18:BC:389:LYS:HG2	2.21	0.40
19:BG:28:ALA:HA	19:BG:31:ALA:HB3	2.03	0.40
19:BG:179:LEU:O	19:BG:182:LYS:N	2.53	0.40
23:BK:91:LYS:HE3	23:BK:91:LYS:HB3	1.91	0.40
25:BM:43:ASP:OD1	25:BM:186:CYS:SG	2.79	0.40
28:BP:44:PRO:HA	28:BP:50:TYR:CD1	2.57	0.40
29:BQ:3:TYR:CG	29:BQ:4:LEU:N	2.89	0.40
1:AU:500:ASN:HA	1:AU:503:GLN:HG2	2.02	0.40
2:AV:433:ASP:OD1	2:AV:433:ASP:N	2.50	0.40
6:AZ:41:GLY:HA3	6:AZ:92:VAL:HB	2.02	0.40
7:Aa:287:ASN:HA	7:Aa:288:HIS:C	2.47	0.40
12:Af:198:HIS:CG	12:Af:199:ASN:N	2.88	0.40
12:Af:211:ILE:CG1	12:Af:223:GLU:HG2	2.51	0.40
12:Af:274:ASP:O	12:Af:278:VAL:HG22	2.22	0.40
12:Af:482:ILE:O	12:Af:485:LEU:HB3	2.22	0.40
12:Af:542:ILE:HD13	12:Af:554:TYR:CE2	2.57	0.40
12:Af:648:ALA:HB1	12:Af:650:GLN:HE21	1.87	0.40
12:Af:730:GLY:HA2	12:Af:764:LEU:HD21	2.03	0.40
12:Af:797:LEU:HA	12:Af:798:THR:C	2.46	0.40
13:AA:294:GLU:HA	13:AA:297:ARG:HG2	2.03	0.40
15:AD:98:GLN:O	15:AD:99:ASN:HB2	2.21	0.40
15:AD:233:SER:CB	16:AE:255:ARG:HG2	2.52	0.40
16:AE:321:THR:HG22	17:AF:215:LEU:HA	2.04	0.40
17:AF:264:GLY:HA2	17:AF:267:LEU:HB2	2.02	0.40
18:AC:151:ILE:HG12	18:AC:154:LEU:HD12	2.03	0.40
18:AC:328:ILE:HG21	35:AC:501:ADP:N1	2.37	0.40
22:AJ:82:ILE:HD13	22:AJ:82:ILE:HA	1.93	0.40
26:AN:166:ARG:HD2	32:BT:34:ALA:O	2.21	0.40
29:AQ:3:TYR:OH	29:AQ:130:ALA:O	2.32	0.40
30:AR:8:PHE:HE2	30:AR:13:ILE:HG12	1.86	0.40
32:AT:99:ARG:HA	32:AT:99:ARG:HD3	1.96	0.40
1:BU:230:SER:HA	1:BU:268:LEU:HD11	2.03	0.40
1:BU:567:ILE:HD11	1:BU:585:THR:HB	2.02	0.40
3:BW:397:VAL:HG11	4:BX:341:PRO:HB3	2.03	0.40
6:BZ:221:PRO:CD	6:BZ:222:ILE:HA	2.51	0.40
7:Ba:252:LYS:HD3	7:Ba:252:LYS:HA	1.75	0.40
10:Bd:184:LYS:HA	10:Bd:185:ALA:HA	1.74	0.40
11:Be:58:ALA:H	11:Be:59:GLU:HB2	1.86	0.40
12:Bf:351:THR:OG1	12:Bf:353:LEU:HD22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bf:746:ARG:C	12:Bf:748:LEU:H	2.29	0.40
12:Bf:747:GLN:NE2	14:BB:117:ASP:CG	2.76	0.40
13:BA:294:GLU:HA	13:BA:297:ARG:HG2	2.03	0.40
13:BA:309:PHE:HE2	17:BF:183:GLU:OE2	2.05	0.40
13:BA:419:SER:HA	13:BA:422:LYS:HD2	2.03	0.40
15:BD:130:VAL:HB	15:BD:142:VAL:HG12	2.04	0.40
16:BE:174:GLY:C	16:BE:180:LYS:HZ1	2.29	0.40
17:BF:229:PRO:HB3	34:BF:501:ATP:O1B	2.22	0.40
18:BC:151:ILE:HG12	18:BC:154:LEU:HD12	2.03	0.40
18:BC:192:PRO:HA	18:BC:193:GLY:HA3	1.80	0.40
19:BG:127:GLN:HA	20:BH:128:ARG:NH1	2.36	0.40
19:BG:152:TYR:CD1	19:BG:162:GLY:HA3	2.56	0.40
20:BH:105:ILE:HG23	20:BH:110:LEU:HD11	2.03	0.40
21:BI:180:LYS:HB2	21:BI:183:GLU:OE1	2.21	0.40
21:BI:233:VAL:O	21:BI:237:ILE:HG13	2.21	0.40
22:BJ:20:GLU:H	22:BJ:20:GLU:CD	2.29	0.40
24:BL:65:HIS:HD2	24:BL:221:PHE:HD2	1.69	0.40
24:BL:189:LYS:HZ3	24:BL:193:ARG:HH22	1.69	0.40
28:BP:123:SER:HB3	28:BP:137:VAL:HB	2.03	0.40
30:BR:41:LEU:HA	30:BR:41:LEU:HD23	1.85	0.40
31:BS:99:ARG:O	31:BS:101:PHE:N	2.54	0.40
1:AU:57:ARG:HG3	1:AU:58:GLN:N	2.36	0.40
1:AU:160:LEU:HD21	1:AU:196:LYS:HB3	2.04	0.40
1:AU:230:SER:HA	1:AU:268:LEU:HD11	2.04	0.40
1:AU:712:LEU:O	1:AU:716:VAL:HG22	2.21	0.40
2:AV:96:ARG:HA	2:AV:98:LEU:HB2	2.03	0.40
3:AW:220:GLU:HA	3:AW:221:LYS:HA	1.82	0.40
3:AW:436:MET:O	3:AW:440:ASN:ND2	2.46	0.40
5:AY:80:GLU:HA	5:AY:83:ARG:HG2	2.02	0.40
5:AY:316:LEU:HG	5:AY:352:GLU:HG3	2.03	0.40
6:AZ:72:HIS:O	6:AZ:76:GLU:HG2	2.22	0.40
9:Ac:310:LYS:HA	9:Ac:310:LYS:HD2	1.96	0.40
11:Ae:58:ALA:H	11:Ae:59:GLU:HB2	1.86	0.40
12:Af:247:ALA:O	12:Af:251:CYS:HB3	2.21	0.40
12:Af:378:ASN:OD1	12:Af:382:ASN:ND2	2.54	0.40
12:Af:462:ALA:O	12:Af:466:LEU:HG	2.21	0.40
12:Af:617:SER:OG	12:Af:618:GLU:N	2.51	0.40
14:AB:102:LEU:HD12	14:AB:102:LEU:O	2.21	0.40
14:AB:304:GLU:HA	14:AB:307:ARG:HE	1.87	0.40
15:AD:91:GLN:N	15:AD:104:GLY:O	2.52	0.40
15:AD:136:SER:HB3	18:AC:67:GLN:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AD:207:PRO:CG	15:AD:312:ASN:HA	2.52	0.40
16:AE:338:PHE:CZ	16:AE:375:ALA:HB1	2.56	0.40
18:AC:168:PRO:C	18:AC:172:PRO:HG3	2.47	0.40
18:AC:301:LEU:O	18:AC:305:LEU:HB2	2.22	0.40
21:AI:95:GLN:NE2	21:AI:98:LEU:HD23	2.35	0.40
23:AK:71:ASP:CG	23:AK:72:ALA:H	2.29	0.40
24:AL:148:CYS:HG	24:AL:150:SER:HG	1.47	0.40
26:AN:136:TYR:HD2	26:BN:134:TYR:CG	2.39	0.40
30:AR:26:ILE:HG22	28:BP:177:ARG:CD	2.11	0.40
32:AT:209:TRP:HH2	26:BN:172:GLY:HA2	1.86	0.40
1:BU:554:LEU:HD23	1:BU:554:LEU:C	2.46	0.40
2:BV:78:HIS:HB3	2:BV:161:PRO:HB3	2.04	0.40
2:BV:179:LYS:HG2	2:BV:214:HIS:NE2	2.36	0.40
2:BV:193:GLN:O	2:BV:194:LYS:HB2	2.22	0.40
4:BX:126:ARG:HH22	4:BX:156:GLU:HG3	1.85	0.40
5:BY:233:ARG:HB3	5:BY:234:PRO:HD3	2.04	0.40
6:BZ:96:HIS:CE1	6:BZ:123:ILE:HG12	2.57	0.40
6:BZ:180:LYS:HG2	15:BD:70:LYS:HG2	2.04	0.40
7:Ba:77:VAL:HA	7:Ba:80:ILE:HG22	2.01	0.40
12:Bf:248:LEU:O	12:Bf:248:LEU:HD12	2.21	0.40
12:Bf:288:VAL:HG13	12:Bf:289:VAL:H	1.87	0.40
12:Bf:378:ASN:OD1	12:Bf:382:ASN:ND2	2.54	0.40
12:Bf:627:GLU:HA	12:Bf:630:ASP:HB2	2.03	0.40
12:Bf:738:ASN:HB3	12:Bf:741:LEU:HD13	2.04	0.40
13:BA:222:LYS:HD3	13:BA:275:ASP:OD2	2.22	0.40
14:BB:217:LYS:HE3	14:BB:217:LYS:HB3	1.83	0.40
14:BB:309:MET:O	14:BB:312:LEU:HB3	2.22	0.40
15:BD:136:SER:HB3	18:BC:67:GLN:HA	2.03	0.40
15:BD:241:GLY:O	15:BD:244:PRO:HD2	2.21	0.40
15:BD:274:ARG:HD2	15:BD:275:PHE:H	1.86	0.40
18:BC:295:THR:HB	18:BC:300:ILE:CD1	2.51	0.40
18:BC:301:LEU:O	18:BC:305:LEU:HB2	2.22	0.40
18:BC:328:ILE:HG21	35:BC:501:ADP:N1	2.37	0.40
21:BI:42:GLY:HA2	21:BI:217:THR:HA	2.04	0.40
26:BN:36:PRO:HA	26:BN:42:PHE:CD1	2.57	0.40
27:BO:48:THR:HG22	27:BO:51:ASP:H	1.87	0.40
27:BO:48:THR:O	27:BO:52:THR:HG23	2.22	0.40
29:BQ:13:VAL:O	29:BQ:182:ILE:HD12	2.21	0.40
30:BR:3:THR:HG22	30:BR:16:ALA:HB1	2.03	0.40
31:BS:76:LYS:O	31:BS:80:ASN:N	2.49	0.40
1:AU:397:THR:OG1	1:AU:398:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:152:GLY:O	2:AV:156:SER:OG	2.35	0.40
3:AW:86:ASN:CB	3:AW:88:MET:HG3	2.51	0.40
3:AW:112:VAL:HB	3:AW:120:ILE:HD13	2.03	0.40
3:AW:121:LYS:HG3	3:AW:122:LEU:HD12	2.02	0.40
4:AX:420:LYS:HZ3	6:AZ:279:LYS:HD2	1.87	0.40
6:AZ:180:LYS:HG2	15:AD:70:LYS:HG2	2.04	0.40
9:Ac:121:TRP:HB3	9:Ac:192:LEU:HD21	2.02	0.40
9:Ac:245:VAL:HG22	9:Ac:248:MET:SD	2.62	0.40
12:Af:405:HIS:HA	12:Af:408:LEU:HB2	2.02	0.40
14:AB:234:LEU:O	14:AB:237:LYS:HB2	2.22	0.40
15:AD:289:LEU:HD21	15:AD:321:LEU:HD11	2.03	0.40
17:AF:344:ARG:HD2	17:AF:347:ARG:HH21	1.85	0.40
18:AC:172:PRO:O	18:AC:175:PHE:HB2	2.21	0.40
18:AC:381:GLU:O	18:AC:385:MET:HG2	2.21	0.40
19:AG:16:PHE:CZ	20:AH:128:ARG:HD2	2.57	0.40
22:AJ:104:VAL:HG23	22:AJ:133:ILE:HG22	2.02	0.40
26:AN:36:PRO:HA	26:AN:42:PHE:CD1	2.57	0.40
28:AP:106:GLU:HB3	28:AP:139:SER:HB3	2.03	0.40
32:AT:4:PRO:HB3	32:AT:56:ASP:HB2	2.03	0.40
1:BU:208:LEU:HD23	1:BU:210:LYS:N	2.36	0.40
1:BU:253:TYR:CE1	1:BU:331:GLY:HA3	2.57	0.40
1:BU:361:ARG:NH1	1:BU:727:LYS:HG3	2.37	0.40
1:BU:521:LEU:HD13	1:BU:554:LEU:HD23	2.04	0.40
2:BV:246:GLY:O	2:BV:249:THR:OG1	2.29	0.40
3:BW:40:LEU:HB2	3:BW:41:GLN:CA	2.41	0.40
5:BY:177:ARG:HH22	18:BC:337:ASN:CG	2.29	0.40
12:Bf:210:GLU:O	12:Bf:214:VAL:HG22	2.22	0.40
12:Bf:382:ASN:HA	12:Bf:413:SER:CB	2.48	0.40
12:Bf:408:LEU:O	12:Bf:409:SER:OG	2.36	0.40
12:Bf:462:ALA:O	12:Bf:466:LEU:HG	2.21	0.40
13:BA:276:GLU:OE2	14:BB:310:LEU:HG	2.21	0.40
13:BA:416:VAL:HA	13:BA:420:TYR:CD2	2.55	0.40
14:BB:176:VAL:CG2	14:BB:177:GLU:HB2	2.52	0.40
16:BE:261:LEU:HD21	16:BE:289:LEU:HG	2.03	0.40
16:BE:281:ARG:HG2	16:BE:387:LYS:HE3	2.03	0.40
16:BE:320:ILE:HD12	17:BF:215:LEU:O	2.22	0.40
17:BF:403:ALA:O	17:BF:407:ALA:CB	2.70	0.40
24:BL:146:GLN:HE21	24:BL:154:PHE:HD2	1.68	0.40
25:BM:25:TYR:HA	25:BM:28:LYS:HE3	2.03	0.40
31:BS:68:ILE:HD11	31:BS:92:LEU:HD13	2.03	0.40
32:BT:22:ILE:HD12	32:BT:50:MET:HE3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	AU	798/953 (84%)	762 (96%)	34 (4%)	2 (0%)	36 67
1	BU	798/953 (84%)	762 (96%)	34 (4%)	2 (0%)	36 67
2	AV	478/533 (90%)	431 (90%)	40 (8%)	7 (2%)	8 36
2	BV	478/533 (90%)	431 (90%)	39 (8%)	8 (2%)	7 34
3	AW	454/456 (100%)	412 (91%)	38 (8%)	4 (1%)	14 45
3	BW	454/456 (100%)	412 (91%)	38 (8%)	4 (1%)	14 45
4	AX	378/422 (90%)	363 (96%)	15 (4%)	0	100 100
4	BX	378/422 (90%)	363 (96%)	15 (4%)	0	100 100
5	AY	376/389 (97%)	342 (91%)	30 (8%)	4 (1%)	11 41
5	BY	376/389 (97%)	342 (91%)	30 (8%)	4 (1%)	11 41
6	AZ	284/324 (88%)	257 (90%)	23 (8%)	4 (1%)	9 37
6	BZ	284/324 (88%)	257 (90%)	23 (8%)	4 (1%)	9 37
7	Aa	371/376 (99%)	343 (92%)	23 (6%)	5 (1%)	9 38
7	Ba	371/376 (99%)	343 (92%)	23 (6%)	5 (1%)	9 38
8	Ab	189/377 (50%)	180 (95%)	8 (4%)	1 (0%)	24 57
8	Bb	189/377 (50%)	180 (95%)	8 (4%)	1 (0%)	24 57
9	Ac	285/310 (92%)	252 (88%)	27 (10%)	6 (2%)	5 31
9	Bc	285/310 (92%)	252 (88%)	27 (10%)	6 (2%)	5 31
10	Ad	255/257 (99%)	227 (89%)	25 (10%)	3 (1%)	10 40
10	Bd	255/257 (99%)	227 (89%)	25 (10%)	3 (1%)	10 40
11	Ae	36/70 (51%)	32 (89%)	3 (8%)	1 (3%)	4 26
11	Be	36/70 (51%)	32 (89%)	3 (8%)	1 (3%)	4 26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	Af	686/908 (76%)	571 (83%)	110 (16%)	5 (1%)	18 51
12	Bf	686/908 (76%)	571 (83%)	110 (16%)	5 (1%)	18 51
13	AA	359/433 (83%)	317 (88%)	33 (9%)	9 (2%)	4 28
13	BA	359/433 (83%)	317 (88%)	33 (9%)	9 (2%)	4 28
14	AB	339/440 (77%)	303 (89%)	32 (9%)	4 (1%)	10 40
14	BB	339/440 (77%)	303 (89%)	32 (9%)	4 (1%)	10 40
15	AD	378/418 (90%)	330 (87%)	44 (12%)	4 (1%)	11 41
15	BD	378/418 (90%)	330 (87%)	44 (12%)	4 (1%)	11 41
16	AE	351/389 (90%)	307 (88%)	40 (11%)	4 (1%)	11 41
16	BE	351/389 (90%)	307 (88%)	40 (11%)	4 (1%)	11 41
17	AF	362/439 (82%)	326 (90%)	32 (9%)	4 (1%)	11 41
17	BF	362/439 (82%)	326 (90%)	31 (9%)	5 (1%)	9 37
18	AC	382/406 (94%)	341 (89%)	37 (10%)	4 (1%)	12 43
18	BC	382/406 (94%)	341 (89%)	37 (10%)	4 (1%)	12 43
19	AG	238/245 (97%)	221 (93%)	14 (6%)	3 (1%)	9 38
19	BG	238/245 (97%)	221 (93%)	14 (6%)	3 (1%)	9 38
20	AH	230/233 (99%)	216 (94%)	14 (6%)	0	100 100
20	BH	230/233 (99%)	216 (94%)	14 (6%)	0	100 100
21	AI	248/260 (95%)	226 (91%)	21 (8%)	1 (0%)	30 62
21	BI	248/260 (95%)	226 (91%)	21 (8%)	1 (0%)	30 62
22	AJ	237/247 (96%)	226 (95%)	7 (3%)	4 (2%)	7 34
22	BJ	237/247 (96%)	226 (95%)	7 (3%)	4 (2%)	7 34
23	AK	224/240 (93%)	201 (90%)	21 (9%)	2 (1%)	14 45
23	BK	224/240 (93%)	202 (90%)	20 (9%)	2 (1%)	14 45
24	AL	236/268 (88%)	214 (91%)	22 (9%)	0	100 100
24	BL	236/268 (88%)	214 (91%)	22 (9%)	0	100 100
25	AM	238/254 (94%)	219 (92%)	17 (7%)	2 (1%)	16 48
25	BM	238/254 (94%)	219 (92%)	17 (7%)	2 (1%)	16 48
26	AN	189/238 (79%)	184 (97%)	5 (3%)	0	100 100
26	BN	189/238 (79%)	184 (97%)	5 (3%)	0	100 100
27	AO	218/276 (79%)	211 (97%)	7 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	BO	218/276 (79%)	211 (97%)	7 (3%)	0	100	100
28	AP	202/204 (99%)	181 (90%)	21 (10%)	0	100	100
28	BP	202/204 (99%)	181 (90%)	21 (10%)	0	100	100
29	AQ	197/201 (98%)	181 (92%)	16 (8%)	0	100	100
29	BQ	197/201 (98%)	181 (92%)	16 (8%)	0	100	100
30	AR	199/262 (76%)	192 (96%)	7 (4%)	0	100	100
30	BR	199/262 (76%)	192 (96%)	7 (4%)	0	100	100
31	AS	211/240 (88%)	201 (95%)	10 (5%)	0	100	100
31	BS	211/240 (88%)	201 (95%)	10 (5%)	0	100	100
32	AT	213/263 (81%)	204 (96%)	9 (4%)	0	100	100
32	BT	213/263 (81%)	204 (96%)	9 (4%)	0	100	100
All	All	19682/22662 (87%)	17947 (91%)	1567 (8%)	168 (1%)	16	45

All (168) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AU	364	VAL
3	AW	136	ILE
5	AY	350	VAL
9	Ac	157	ILE
9	Ac	244	VAL
12	Af	221	ILE
12	Af	606	VAL
13	AA	206	ILE
19	AG	111	VAL
23	AK	12	VAL
1	BU	364	VAL
3	BW	136	ILE
5	BY	350	VAL
9	Bc	157	ILE
9	Bc	244	VAL
12	Bf	221	ILE
12	Bf	606	VAL
13	BA	206	ILE
19	BG	111	VAL
23	BK	12	VAL
2	AV	82	LEU
7	Aa	340	VAL

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Mol	Chain	Res	Type
12	Af	290	VAL
13	AA	95	VAL
13	AA	268	LYS
13	AA	427	PRO
14	AB	218	PRO
14	AB	263	GLY
14	AB	325	VAL
15	AD	149	SER
15	AD	151	ILE
17	AF	88	TYR
18	AC	298	ILE
21	AI	158	GLY
22	AJ	199	VAL
23	AK	11	GLY
25	AM	63	ASN
2	BV	82	LEU
7	Ba	336	VAL
7	Ba	340	VAL
12	Bf	290	VAL
13	BA	95	VAL
13	BA	268	LYS
13	BA	427	PRO
14	BB	218	PRO
14	BB	263	GLY
14	BB	325	VAL
15	BD	149	SER
15	BD	151	ILE
17	BF	88	TYR
18	BC	298	ILE
21	BI	158	GLY
22	BJ	199	VAL
23	BK	11	GLY
25	BM	63	ASN
2	AV	59	ALA
2	AV	96	ARG
5	AY	287	LEU
6	AZ	144	VAL
7	Aa	336	VAL
12	Af	440	ILE
15	AD	170	MET
16	AE	209	GLY
16	AE	247	THR

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Mol	Chain	Res	Type
18	AC	219	LEU
19	AG	185	LYS
22	AJ	96	LEU
2	BV	59	ALA
2	BV	96	ARG
5	BY	287	LEU
6	BZ	144	VAL
12	Bf	440	ILE
15	BD	170	MET
16	BE	209	GLY
16	BE	247	THR
18	BC	219	LEU
19	BG	185	LYS
22	BJ	96	LEU
3	AW	40	LEU
3	AW	138	VAL
5	AY	64	GLN
5	AY	67	VAL
6	AZ	33	LYS
8	Ab	77	THR
9	Ac	156	VAL
10	Ad	213	ARG
12	Af	594	LEU
16	AE	208	ILE
18	AC	228	ALA
3	BW	40	LEU
3	BW	138	VAL
5	BY	64	GLN
5	BY	67	VAL
6	BZ	33	LYS
8	Bb	77	THR
9	Bc	156	VAL
10	Bd	213	ARG
12	Bf	594	LEU
16	BE	208	ILE
18	BC	228	ALA
3	AW	427	ASP
7	Aa	69	HIS
7	Aa	260	ASP
11	Ae	4	LYS
3	BW	427	ASP
7	Ba	69	HIS

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Mol	Chain	Res	Type
7	Ba	260	ASP
11	Be	4	LYS
2	AV	319	HIS
10	Ad	214	GLY
15	AD	210	CYS
17	AF	165	PRO
25	AM	235	ALA
2	BV	54	LYS
2	BV	319	HIS
10	Bd	214	GLY
14	BB	219	PRO
15	BD	210	CYS
17	BF	165	PRO
17	BF	200	GLU
25	BM	235	ALA
9	Ac	105	PRO
13	AA	317	VAL
14	AB	219	PRO
17	AF	326	VAL
19	AG	170	VAL
22	AJ	98	VAL
9	Bc	105	PRO
13	BA	317	VAL
17	BF	326	VAL
19	BG	170	VAL
22	BJ	98	VAL
2	AV	464	ILE
6	AZ	240	VAL
13	AA	92	PRO
13	AA	169	LYS
13	AA	172	VAL
16	AE	292	PRO
18	AC	251	ILE
2	BV	464	ILE
6	BZ	240	VAL
13	BA	92	PRO
13	BA	169	LYS
13	BA	172	VAL
16	BE	292	PRO
18	BC	251	ILE
1	AU	134	VAL
2	AV	322	VAL

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Mol	Chain	Res	Type
7	Aa	166	ILE
9	Ac	151	VAL
1	BU	134	VAL
2	BV	322	VAL
7	Ba	166	ILE
9	Bc	151	VAL
2	AV	317	PRO
13	AA	345	LEU
17	AF	147	PRO
22	AJ	222	PRO
2	BV	317	PRO
13	BA	345	LEU
17	BF	147	PRO
22	BJ	222	PRO
9	Ac	189	ILE
9	Bc	189	ILE
6	AZ	221	PRO
6	BZ	221	PRO
10	Ad	37	PRO
10	Bd	37	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AU	685/816 (84%)	685 (100%)	0	100	100
1	BU	685/816 (84%)	685 (100%)	0	100	100
2	AV	414/459 (90%)	414 (100%)	0	100	100
2	BV	414/459 (90%)	414 (100%)	0	100	100
3	AW	416/416 (100%)	416 (100%)	0	100	100
3	BW	416/416 (100%)	416 (100%)	0	100	100
4	AX	327/362 (90%)	327 (100%)	0	100	100
4	BX	327/362 (90%)	327 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	AY	334/344 (97%)	334 (100%)	0	100	100
5	BY	334/344 (97%)	334 (100%)	0	100	100
6	AZ	257/295 (87%)	257 (100%)	0	100	100
6	BZ	257/295 (87%)	257 (100%)	0	100	100
7	Aa	333/336 (99%)	332 (100%)	1 (0%)	86	84
7	Ba	333/336 (99%)	332 (100%)	1 (0%)	86	84
8	Ab	167/312 (54%)	166 (99%)	1 (1%)	78	79
8	Bb	167/312 (54%)	166 (99%)	1 (1%)	78	79
9	Ac	252/268 (94%)	252 (100%)	0	100	100
9	Bc	252/268 (94%)	252 (100%)	0	100	100
10	Ad	231/231 (100%)	231 (100%)	0	100	100
10	Bd	231/231 (100%)	231 (100%)	0	100	100
11	Ae	38/63 (60%)	38 (100%)	0	100	100
11	Be	38/63 (60%)	38 (100%)	0	100	100
12	Af	582/763 (76%)	577 (99%)	5 (1%)	70	74
12	Bf	582/763 (76%)	577 (99%)	5 (1%)	70	74
13	AA	308/372 (83%)	308 (100%)	0	100	100
13	BA	308/372 (83%)	308 (100%)	0	100	100
14	AB	298/385 (77%)	297 (100%)	1 (0%)	86	84
14	BB	298/385 (77%)	297 (100%)	1 (0%)	86	84
15	AD	333/366 (91%)	331 (99%)	2 (1%)	78	79
15	BD	333/366 (91%)	331 (99%)	2 (1%)	78	79
16	AE	308/341 (90%)	307 (100%)	1 (0%)	86	84
16	BE	308/341 (90%)	307 (100%)	1 (0%)	86	84
17	AF	312/379 (82%)	311 (100%)	1 (0%)	86	84
17	BF	312/379 (82%)	311 (100%)	1 (0%)	86	84
18	AC	332/352 (94%)	331 (100%)	1 (0%)	86	84
18	BC	332/352 (94%)	331 (100%)	1 (0%)	86	84
19	AG	193/209 (92%)	193 (100%)	0	100	100
19	BG	193/209 (92%)	193 (100%)	0	100	100
20	AH	164/190 (86%)	164 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	BH	164/190 (86%)	164 (100%)	0	100	100
21	AI	193/220 (88%)	193 (100%)	0	100	100
21	BI	193/220 (88%)	193 (100%)	0	100	100
22	AJ	152/210 (72%)	152 (100%)	0	100	100
22	BJ	152/210 (72%)	152 (100%)	0	100	100
23	AK	186/202 (92%)	186 (100%)	0	100	100
23	BK	186/202 (92%)	186 (100%)	0	100	100
24	AL	198/229 (86%)	198 (100%)	0	100	100
24	BL	198/229 (86%)	198 (100%)	0	100	100
25	AM	192/211 (91%)	192 (100%)	0	100	100
25	BM	192/211 (91%)	192 (100%)	0	100	100
26	AN	148/180 (82%)	148 (100%)	0	100	100
26	BN	148/180 (82%)	148 (100%)	0	100	100
27	AO	177/227 (78%)	177 (100%)	0	100	100
27	BO	177/227 (78%)	177 (100%)	0	100	100
28	AP	172/173 (99%)	172 (100%)	0	100	100
28	BP	172/173 (99%)	172 (100%)	0	100	100
29	AQ	164/171 (96%)	164 (100%)	0	100	100
29	BQ	164/171 (96%)	164 (100%)	0	100	100
30	AR	153/201 (76%)	153 (100%)	0	100	100
30	BR	153/201 (76%)	153 (100%)	0	100	100
31	AS	174/198 (88%)	174 (100%)	0	100	100
31	BS	174/198 (88%)	174 (100%)	0	100	100
32	AT	175/214 (82%)	175 (100%)	0	100	100
32	BT	175/214 (82%)	175 (100%)	0	100	100
All	All	16736/19390 (86%)	16710 (100%)	26 (0%)	85	87

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
7	Aa	14	SER
8	Ab	97	LEU
12	Af	248	LEU

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Mol	Chain	Res	Type
12	Af	266	LEU
12	Af	685	THR
12	Af	759	LEU
12	Af	796	LEU
14	AB	101	ASP
15	AD	82	ILE
15	AD	83	GLN
16	AE	53	VAL
17	AF	85	THR
18	AC	68	GLU
7	Ba	14	SER
8	Bb	97	LEU
12	Bf	248	LEU
12	Bf	266	LEU
12	Bf	685	THR
12	Bf	759	LEU
12	Bf	796	LEU
14	BB	101	ASP
15	BD	82	ILE
15	BD	83	GLN
16	BE	53	VAL
17	BF	85	THR
18	BC	68	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	AU	18	GLN
1	AU	70	HIS
1	AU	111	GLN
1	AU	338	HIS
1	AU	355	ASN
1	AU	464	GLN
1	AU	596	ASN
1	AU	718	ASN
1	AU	805	ASN
1	AU	880	ASN
2	AV	33	GLN
2	AV	279	GLN
2	AV	401	ASN
3	AW	257	GLN
3	AW	426	ASN

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Mol	Chain	Res	Type
4	AX	170	GLN
4	AX	405	GLN
6	AZ	77	ASN
6	AZ	225	GLN
6	AZ	243	GLN
7	Aa	18	GLN
7	Aa	35	HIS
7	Aa	164	GLN
7	Aa	227	ASN
7	Aa	337	GLN
8	Ab	142	ASN
9	Ac	92	GLN
9	Ac	172	HIS
9	Ac	210	ASN
9	Ac	214	GLN
9	Ac	221	HIS
9	Ac	283	HIS
9	Ac	298	GLN
10	Ad	109	GLN
10	Ad	149	ASN
10	Ad	245	GLN
11	Ae	6	GLN
12	Af	198	HIS
12	Af	199	ASN
12	Af	371	ASN
12	Af	387	GLN
12	Af	396	ASN
12	Af	428	GLN
12	Af	475	ASN
12	Af	531	ASN
12	Af	565	ASN
12	Af	650	GLN
12	Af	724	ASN
12	Af	737	ASN
12	Af	747	GLN
12	Af	770	HIS
13	AA	94	GLN
13	AA	150	HIS
13	AA	304	ASN
13	AA	414	ASN
14	AB	153	ASN
14	AB	193	GLN

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Mol	Chain	Res	Type
14	AB	314	ASN
14	AB	315	GLN
15	AD	99	ASN
15	AD	286	GLN
15	AD	304	ASN
16	AE	51	GLN
16	AE	75	ASN
16	AE	262	ASN
16	AE	300	HIS
16	AE	345	ASN
17	AF	83	ASN
17	AF	116	GLN
17	AF	194	GLN
17	AF	208	HIS
17	AF	315	ASN
17	AF	369	HIS
18	AC	36	ASN
18	AC	40	GLN
18	AC	53	ASN
18	AC	90	HIS
18	AC	270	GLN
18	AC	380	GLN
19	AG	75	ASN
19	AG	127	GLN
19	AG	150	GLN
20	AH	109	GLN
20	AH	166	ASN
20	AH	169	ASN
21	AI	95	GLN
21	AI	102	GLN
21	AI	119	GLN
21	AI	146	GLN
22	AJ	120	GLN
22	AJ	200	GLN
23	AK	155	HIS
23	AK	164	GLN
24	AL	146	GLN
24	AL	209	ASN
25	AM	32	ASN
25	AM	110	HIS
25	AM	170	GLN
26	AN	123	GLN

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Mol	Chain	Res	Type
26	AN	158	ASN
27	AO	193	ASN
28	AP	65	GLN
28	AP	72	ASN
28	AP	157	ASN
28	AP	169	GLN
28	AP	173	ASN
29	AQ	99	HIS
31	AS	146	GLN
31	AS	151	ASN
31	AS	157	ASN
31	AS	159	GLN
1	BU	18	GLN
1	BU	111	GLN
1	BU	338	HIS
1	BU	355	ASN
1	BU	464	GLN
1	BU	805	ASN
1	BU	880	ASN
2	BV	33	GLN
2	BV	279	GLN
2	BV	401	ASN
3	BW	257	GLN
3	BW	426	ASN
4	BX	405	GLN
6	BZ	77	ASN
6	BZ	102	HIS
6	BZ	225	GLN
6	BZ	243	GLN
7	Ba	18	GLN
7	Ba	35	HIS
7	Ba	164	GLN
7	Ba	227	ASN
7	Ba	337	GLN
8	Bb	142	ASN
9	Bc	92	GLN
9	Bc	172	HIS
9	Bc	210	ASN
9	Bc	214	GLN
9	Bc	221	HIS
9	Bc	254	ASN
9	Bc	283	HIS

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Mol	Chain	Res	Type
9	Bc	298	GLN
10	Bd	149	ASN
10	Bd	245	GLN
11	Be	6	GLN
12	Bf	198	HIS
12	Bf	199	ASN
12	Bf	371	ASN
12	Bf	387	GLN
12	Bf	396	ASN
12	Bf	428	GLN
12	Bf	452	ASN
12	Bf	475	ASN
12	Bf	531	ASN
12	Bf	565	ASN
12	Bf	650	GLN
12	Bf	724	ASN
12	Bf	737	ASN
12	Bf	747	GLN
12	Bf	770	HIS
13	BA	94	GLN
13	BA	150	HIS
13	BA	304	ASN
13	BA	414	ASN
14	BB	153	ASN
14	BB	193	GLN
14	BB	314	ASN
14	BB	315	GLN
15	BD	99	ASN
15	BD	286	GLN
15	BD	304	ASN
16	BE	51	GLN
16	BE	63	GLN
16	BE	75	ASN
16	BE	262	ASN
16	BE	300	HIS
16	BE	345	ASN
17	BF	102	ASN
17	BF	116	GLN
17	BF	194	GLN
17	BF	369	HIS
17	BF	417	HIS
18	BC	36	ASN

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Mol	Chain	Res	Type
18	BC	40	GLN
18	BC	53	ASN
18	BC	90	HIS
18	BC	270	GLN
18	BC	380	GLN
19	BG	75	ASN
19	BG	127	GLN
19	BG	150	GLN
20	BH	109	GLN
20	BH	166	ASN
20	BH	169	ASN
21	BI	95	GLN
21	BI	102	GLN
21	BI	119	GLN
22	BJ	120	GLN
22	BJ	200	GLN
23	BK	155	HIS
23	BK	164	GLN
24	BL	59	HIS
24	BL	146	GLN
24	BL	209	ASN
25	BM	32	ASN
25	BM	110	HIS
25	BM	170	GLN
26	BN	66	HIS
26	BN	123	GLN
26	BN	158	ASN
27	BO	193	ASN
28	BP	65	GLN
28	BP	72	ASN
28	BP	157	ASN
28	BP	169	GLN
28	BP	173	ASN
29	BQ	99	HIS
31	BS	146	GLN
31	BS	151	ASN
31	BS	157	ASN
31	BS	159	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
35	ADP	AB	501	-	28,29,29	1.45	4 (14%)	43,45,45	1.89	10 (23%)
34	ATP	BA	501	-	32,33,33	1.33	5 (15%)	48,52,52	1.78	10 (20%)
34	ATP	AA	501	-	32,33,33	1.33	5 (15%)	48,52,52	1.77	10 (20%)
34	ATP	BE	401	-	32,33,33	1.39	5 (15%)	48,52,52	1.69	8 (16%)
34	ATP	AF	501	-	32,33,33	1.35	4 (12%)	48,52,52	1.71	7 (14%)
34	ATP	BD	501	-	32,33,33	1.39	5 (15%)	48,52,52	1.69	10 (20%)
34	ATP	BF	501	-	32,33,33	1.35	4 (12%)	48,52,52	1.71	7 (14%)
35	ADP	BC	501	-	28,29,29	1.46	5 (17%)	43,45,45	1.86	10 (23%)
34	ATP	AE	401	-	32,33,33	1.39	5 (15%)	48,52,52	1.68	8 (16%)
34	ATP	AD	501	-	32,33,33	1.39	5 (15%)	48,52,52	1.69	10 (20%)
35	ADP	AC	501	-	28,29,29	1.45	5 (17%)	43,45,45	1.85	10 (23%)
35	ADP	BB	501	-	28,29,29	1.44	5 (17%)	43,45,45	1.89	10 (23%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
35	ADP	AB	501	-	-	6/16/32/32	0/3/3/3
34	ATP	BA	501	-	-	4/22/38/38	0/3/3/3
34	ATP	AA	501	-	-	4/22/38/38	0/3/3/3
34	ATP	BE	401	-	-	4/22/38/38	0/3/3/3
34	ATP	AF	501	-	-	1/22/38/38	0/3/3/3
34	ATP	BD	501	-	-	4/22/38/38	0/3/3/3
34	ATP	BF	501	-	-	1/22/38/38	0/3/3/3
35	ADP	BC	501	-	-	5/16/32/32	0/3/3/3
34	ATP	AE	401	-	-	4/22/38/38	0/3/3/3
34	ATP	AD	501	-	-	4/22/38/38	0/3/3/3
35	ADP	AC	501	-	-	5/16/32/32	0/3/3/3
35	ADP	BB	501	-	-	6/16/32/32	0/3/3/3

All (57) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BC	501	ADP	C5-C4	4.86	1.47	1.39
35	AC	501	ADP	C5-C4	4.81	1.47	1.39
34	AE	401	ATP	C5-C4	4.78	1.47	1.39
34	BE	401	ATP	C5-C4	4.78	1.47	1.39
34	AF	501	ATP	C5-C4	4.70	1.47	1.39
34	BF	501	ATP	C5-C4	4.70	1.47	1.39
35	AB	501	ADP	C5-C4	4.63	1.47	1.39
35	BB	501	ADP	C5-C4	4.63	1.47	1.39
34	AD	501	ATP	C5-C4	4.59	1.47	1.39
34	BD	501	ATP	C5-C4	4.59	1.47	1.39
34	BA	501	ATP	C5-C4	4.47	1.47	1.39
34	AA	501	ATP	C5-C4	4.47	1.47	1.39
34	BE	401	ATP	C5-C6	2.72	1.48	1.41
34	AE	401	ATP	C5-C6	2.71	1.48	1.41
35	AB	501	ADP	PA-O3A	2.70	1.62	1.59
35	AC	501	ADP	C5-C6	2.68	1.48	1.41
35	BC	501	ADP	C5-C6	2.67	1.48	1.41
35	BB	501	ADP	C5-N7	-2.66	1.34	1.39
35	BB	501	ADP	PA-O3A	2.65	1.62	1.59
35	AB	501	ADP	C5-N7	-2.64	1.34	1.39
34	AD	501	ATP	C5-C6	2.62	1.48	1.41
34	BF	501	ATP	C5-C6	2.60	1.48	1.41
34	BD	501	ATP	C5-C6	2.60	1.48	1.41
34	AF	501	ATP	C5-C6	2.59	1.48	1.41
34	AE	401	ATP	C5-N7	-2.52	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BE	401	ATP	C5-N7	-2.51	1.34	1.39
34	BF	501	ATP	C5-N7	-2.50	1.34	1.39
34	AF	501	ATP	C5-N7	-2.47	1.34	1.39
34	AA	501	ATP	C5-C6	2.44	1.47	1.41
35	AC	501	ADP	C5-N7	-2.43	1.34	1.39
35	BC	501	ADP	C5-N7	-2.43	1.34	1.39
34	BA	501	ATP	C5-C6	2.42	1.47	1.41
34	AA	501	ATP	C5-N7	-2.42	1.34	1.39
34	BA	501	ATP	C5-N7	-2.42	1.34	1.39
35	AB	501	ADP	C5-C6	2.40	1.47	1.41
35	BB	501	ADP	C5-C6	2.39	1.47	1.41
34	BE	401	ATP	C8-N7	2.36	1.36	1.31
34	AE	401	ATP	C8-N7	2.34	1.36	1.31
34	BD	501	ATP	C8-N7	2.32	1.36	1.31
34	AD	501	ATP	C8-N7	2.32	1.36	1.31
34	AD	501	ATP	C5-N7	-2.29	1.34	1.39
34	BD	501	ATP	C5-N7	-2.29	1.34	1.39
34	AD	501	ATP	PB-O3B	2.27	1.61	1.59
35	AC	501	ADP	C8-N7	2.25	1.36	1.31
35	BC	501	ADP	C8-N7	2.25	1.36	1.31
34	BD	501	ATP	PB-O3B	2.23	1.61	1.59
34	AF	501	ATP	C8-N7	2.16	1.35	1.31
34	BA	501	ATP	C8-N7	2.16	1.35	1.31
34	BF	501	ATP	C8-N7	2.15	1.35	1.31
34	AA	501	ATP	C8-N7	2.15	1.35	1.31
35	AC	501	ADP	PA-O3A	2.15	1.61	1.59
35	BC	501	ADP	PA-O3A	2.15	1.61	1.59
34	BE	401	ATP	C4-N9	-2.13	1.33	1.37
34	AE	401	ATP	C4-N9	-2.11	1.33	1.37
34	BA	501	ATP	C4-N9	-2.10	1.33	1.37
34	AA	501	ATP	C4-N9	-2.09	1.33	1.37
35	BB	501	ADP	C8-N7	2.02	1.35	1.31

All (110) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AB	501	ADP	C5-C4-N3	-6.25	118.11	126.72
35	BB	501	ADP	C5-C4-N3	-6.25	118.11	126.72
34	AF	501	ATP	C5-C4-N3	-6.07	118.36	126.72
34	BF	501	ATP	C5-C4-N3	-6.07	118.36	126.72
35	BC	501	ADP	C5-C4-N3	-6.06	118.37	126.72
35	AC	501	ADP	C5-C4-N3	-6.06	118.37	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BE	401	ATP	C5-C4-N3	-5.76	118.79	126.72
34	AE	401	ATP	C5-C4-N3	-5.73	118.83	126.72
34	BA	501	ATP	C5-C4-N3	-5.59	119.02	126.72
34	AA	501	ATP	C5-C4-N3	-5.58	119.03	126.72
34	AD	501	ATP	C5-C4-N3	-5.44	119.22	126.72
34	BD	501	ATP	C5-C4-N3	-5.44	119.22	126.72
35	AB	501	ADP	N3-C4-N9	5.15	135.93	127.17
35	BB	501	ADP	N3-C4-N9	5.13	135.89	127.17
34	BF	501	ATP	N3-C4-N9	4.77	135.28	127.17
34	AF	501	ATP	N3-C4-N9	4.75	135.25	127.17
34	AA	501	ATP	N3-C4-N9	4.73	135.21	127.17
34	BA	501	ATP	N3-C4-N9	4.72	135.20	127.17
35	BC	501	ADP	N3-C4-N9	4.65	135.08	127.17
35	AC	501	ADP	N3-C4-N9	4.62	135.03	127.17
34	AD	501	ATP	N3-C4-N9	4.36	134.59	127.17
34	BD	501	ATP	N3-C4-N9	4.36	134.59	127.17
34	BE	401	ATP	N3-C4-N9	4.18	134.28	127.17
34	AE	401	ATP	N3-C4-N9	4.16	134.24	127.17
35	AC	501	ADP	C4-C5-N7	-3.81	106.23	110.58
35	BC	501	ADP	C4-C5-N7	-3.81	106.23	110.58
34	AE	401	ATP	C4-C5-N7	-3.74	106.31	110.58
34	BE	401	ATP	C4-C5-N7	-3.73	106.31	110.58
34	AD	501	ATP	C2-N3-C4	3.61	120.64	111.83
34	BD	501	ATP	C2-N3-C4	3.60	120.61	111.83
35	BC	501	ADP	C2-N3-C4	3.57	120.56	111.83
35	AC	501	ADP	C2-N3-C4	3.56	120.52	111.83
35	AB	501	ADP	C2-N3-C4	3.56	120.52	111.83
35	BB	501	ADP	C2-N3-C4	3.55	120.50	111.83
34	AF	501	ATP	C2-N3-C4	3.55	120.50	111.83
34	BF	501	ATP	C2-N3-C4	3.55	120.50	111.83
34	AA	501	ATP	C2-N3-C4	3.47	120.31	111.83
34	BA	501	ATP	C2-N3-C4	3.47	120.30	111.83
34	AF	501	ATP	C4-C5-N7	-3.41	106.68	110.58
34	BF	501	ATP	C4-C5-N7	-3.39	106.70	110.58
34	AD	501	ATP	N3-C2-N1	-3.32	123.55	128.58
34	BD	501	ATP	N3-C2-N1	-3.31	123.57	128.58
34	AE	401	ATP	C2-N3-C4	3.29	119.88	111.83
34	BE	401	ATP	C2-N3-C4	3.29	119.87	111.83
34	AD	501	ATP	C4-C5-N7	-3.18	106.94	110.58
34	BD	501	ATP	C4-C5-N7	-3.18	106.94	110.58
34	BA	501	ATP	C4-N9-C8	3.14	109.04	105.74
34	AA	501	ATP	C4-N9-C8	3.12	109.02	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BB	501	ADP	C4-C5-N7	-3.10	107.04	110.58
34	BA	501	ATP	C4-C5-N7	-3.09	107.05	110.58
34	BA	501	ATP	N3-C2-N1	-3.08	123.92	128.58
35	AB	501	ADP	C4-C5-N7	-3.07	107.07	110.58
34	AA	501	ATP	N3-C2-N1	-3.07	123.94	128.58
34	AA	501	ATP	C4-C5-N7	-3.05	107.09	110.58
35	BC	501	ADP	N3-C2-N1	-2.80	124.34	128.58
35	AC	501	ADP	N3-C2-N1	-2.78	124.38	128.58
34	BE	401	ATP	C3'-C2'-C1'	2.78	106.72	101.46
34	AE	401	ATP	C3'-C2'-C1'	2.77	106.70	101.46
34	AF	501	ATP	N3-C2-N1	-2.69	124.51	128.58
35	AC	501	ADP	C5-N7-C8	2.68	107.66	103.45
35	BC	501	ADP	C5-N7-C8	2.68	107.66	103.45
34	BF	501	ATP	N3-C2-N1	-2.67	124.53	128.58
34	AD	501	ATP	C4-N9-C8	2.67	108.55	105.74
34	BD	501	ATP	C4-N9-C8	2.67	108.55	105.74
35	BB	501	ADP	N3-C2-N1	-2.62	124.61	128.58
35	AB	501	ADP	N3-C2-N1	-2.62	124.62	128.58
35	BB	501	ADP	C3'-C2'-C1'	2.57	106.33	101.46
35	AB	501	ADP	C3'-C2'-C1'	2.55	106.29	101.46
34	BA	501	ATP	C3'-C2'-C1'	2.46	106.11	101.46
34	AA	501	ATP	C3'-C2'-C1'	2.45	106.09	101.46
35	AB	501	ADP	C4-N9-C8	2.41	108.27	105.74
35	BB	501	ADP	C4-N9-C8	2.41	108.27	105.74
34	BA	501	ATP	C5-N7-C8	2.38	107.18	103.45
34	BF	501	ATP	C5-N7-C8	2.37	107.17	103.45
34	AF	501	ATP	C5-N7-C8	2.36	107.16	103.45
34	AA	501	ATP	C5-N7-C8	2.35	107.14	103.45
35	BB	501	ADP	C5-N7-C8	2.33	107.12	103.45
34	AE	401	ATP	C5-N7-C8	2.33	107.12	103.45
34	BE	401	ATP	C5-N7-C8	2.33	107.11	103.45
35	BC	501	ADP	C4-N9-C8	2.33	108.19	105.74
34	AE	401	ATP	N3-C2-N1	-2.33	125.06	128.58
34	AD	501	ATP	O4'-C1'-N9	2.32	112.55	108.09
35	AB	501	ADP	C5-N7-C8	2.32	107.09	103.45
34	AD	501	ATP	C5-N7-C8	2.31	107.09	103.45
34	AF	501	ATP	C4-N9-C8	2.31	108.17	105.74
34	BD	501	ATP	O4'-C1'-N9	2.31	112.52	108.09
34	BD	501	ATP	C5-N7-C8	2.31	107.08	103.45
34	BF	501	ATP	C4-N9-C8	2.31	108.16	105.74
35	AC	501	ADP	C4-N9-C8	2.30	108.15	105.74
34	BE	401	ATP	N3-C2-N1	-2.29	125.11	128.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AC	501	ADP	C3'-C2'-C1'	2.28	105.77	101.46
35	BC	501	ADP	C3'-C2'-C1'	2.28	105.77	101.46
35	AC	501	ADP	C2'-C1'-N9	-2.24	107.75	113.30
35	BC	501	ADP	C2'-C1'-N9	-2.22	107.79	113.30
35	AB	501	ADP	C2'-C3'-C4'	2.19	106.84	102.61
35	BB	501	ADP	C2'-C3'-C4'	2.17	106.80	102.61
34	AD	501	ATP	C6-C5-N7	2.16	136.25	132.09
35	BB	501	ADP	C2'-C1'-N9	-2.15	107.95	113.30
34	BD	501	ATP	C6-C5-N7	2.15	136.23	132.09
35	AB	501	ADP	C2'-C1'-N9	-2.14	107.99	113.30
34	BA	501	ATP	C2'-C1'-N9	-2.13	108.01	113.30
34	AA	501	ATP	C2'-C1'-N9	-2.12	108.03	113.30
34	BA	501	ATP	N9-C8-N7	-2.10	110.95	113.94
34	AD	501	ATP	C3'-C2'-C1'	2.08	105.40	101.46
34	BD	501	ATP	C3'-C2'-C1'	2.08	105.40	101.46
34	AA	501	ATP	N9-C8-N7	-2.07	111.00	113.94
34	AE	401	ATP	O2B-PB-O1B	2.04	121.94	112.44
35	BC	501	ADP	C6-C5-N7	2.04	136.03	132.09
34	BE	401	ATP	O2B-PB-O1B	2.04	121.92	112.44
35	AC	501	ADP	C6-C5-N7	2.03	135.99	132.09

There are no chirality outliers.

All (48) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
34	AA	501	ATP	C5'-O5'-PA-O1A
34	AA	501	ATP	C5'-O5'-PA-O2A
34	AA	501	ATP	C5'-O5'-PA-O3A
34	AD	501	ATP	PB-O3B-PG-O2G
34	AE	401	ATP	C5'-O5'-PA-O3A
34	BA	501	ATP	C5'-O5'-PA-O1A
34	BA	501	ATP	C5'-O5'-PA-O2A
34	BA	501	ATP	C5'-O5'-PA-O3A
34	BD	501	ATP	PB-O3B-PG-O2G
34	BE	401	ATP	C5'-O5'-PA-O3A
35	AB	501	ADP	C5'-O5'-PA-O1A
35	AB	501	ADP	C5'-O5'-PA-O2A
35	AB	501	ADP	C5'-O5'-PA-O3A
35	AC	501	ADP	C5'-O5'-PA-O1A
35	AC	501	ADP	C5'-O5'-PA-O2A
35	AC	501	ADP	C5'-O5'-PA-O3A
35	AC	501	ADP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
35	BB	501	ADP	C5'-O5'-PA-O1A
35	BB	501	ADP	C5'-O5'-PA-O2A
35	BB	501	ADP	C5'-O5'-PA-O3A
35	BC	501	ADP	C5'-O5'-PA-O1A
35	BC	501	ADP	C5'-O5'-PA-O2A
35	BC	501	ADP	C5'-O5'-PA-O3A
35	BC	501	ADP	O4'-C4'-C5'-O5'
35	AC	501	ADP	C3'-C4'-C5'-O5'
35	BC	501	ADP	C3'-C4'-C5'-O5'
34	AE	401	ATP	C5'-O5'-PA-O1A
34	BE	401	ATP	C5'-O5'-PA-O1A
34	AD	501	ATP	C2'-C1'-N9-C8
34	BD	501	ATP	C2'-C1'-N9-C8
35	AB	501	ADP	PB-O3A-PA-O2A
35	BB	501	ADP	PB-O3A-PA-O2A
35	AB	501	ADP	PB-O3A-PA-O1A
35	BB	501	ADP	PB-O3A-PA-O1A
34	AD	501	ATP	O4'-C1'-N9-C8
34	BD	501	ATP	O4'-C1'-N9-C8
34	AE	401	ATP	PA-O3A-PB-O2B
34	BE	401	ATP	PA-O3A-PB-O2B
35	AB	501	ADP	O4'-C4'-C5'-O5'
35	BB	501	ADP	O4'-C4'-C5'-O5'
34	AA	501	ATP	C4'-C5'-O5'-PA
34	BA	501	ATP	C4'-C5'-O5'-PA
34	AD	501	ATP	PB-O3A-PA-O2A
34	AE	401	ATP	PA-O3A-PB-O1B
34	AF	501	ATP	PA-O3A-PB-O2B
34	BD	501	ATP	PB-O3A-PA-O2A
34	BE	401	ATP	PA-O3A-PB-O1B
34	BF	501	ATP	PA-O3A-PB-O2B

There are no ring outliers.

12 monomers are involved in 48 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
35	AB	501	ADP	7	0
34	BA	501	ATP	2	0
34	AA	501	ATP	2	0
34	BE	401	ATP	9	0
34	AF	501	ATP	2	0
34	BD	501	ATP	1	0

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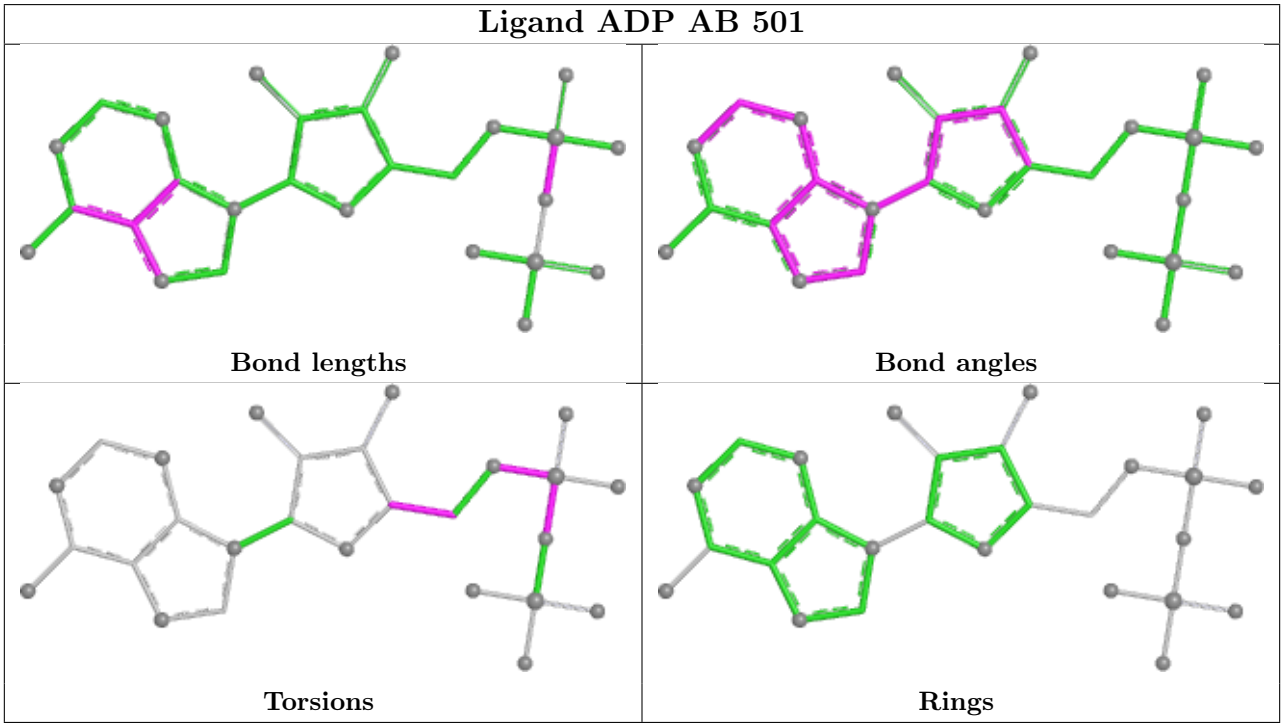
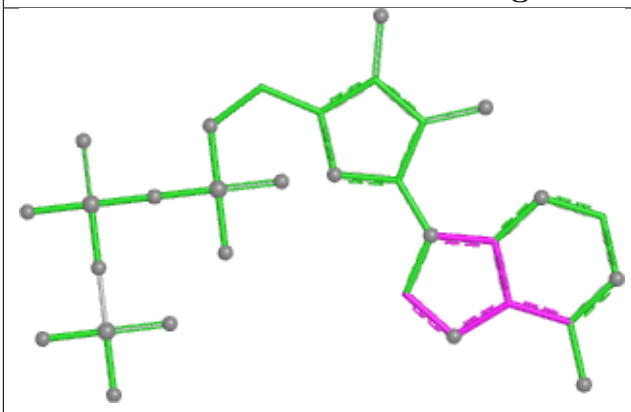
Mol	Chain	Res	Type	Clashes	Symm-Clashes
34	BF	501	ATP	2	0
35	BC	501	ADP	3	0
34	AE	401	ATP	9	0
34	AD	501	ATP	1	0
35	AC	501	ADP	3	0
35	BB	501	ADP	7	0

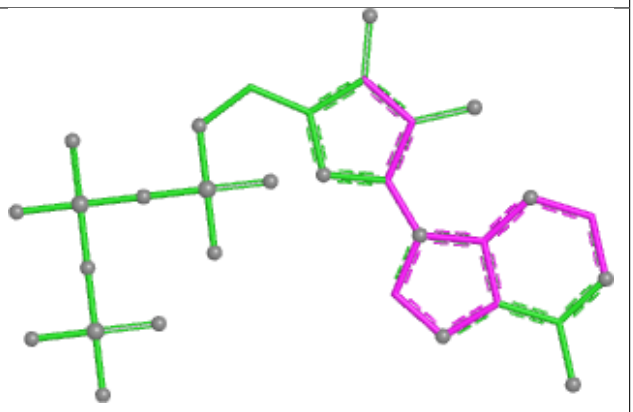
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



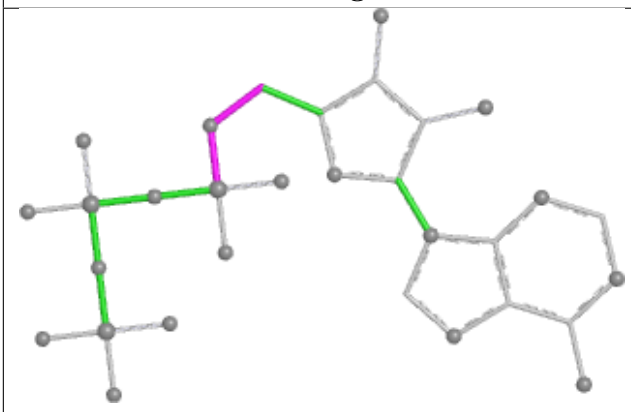
Ligand ATP BA 501



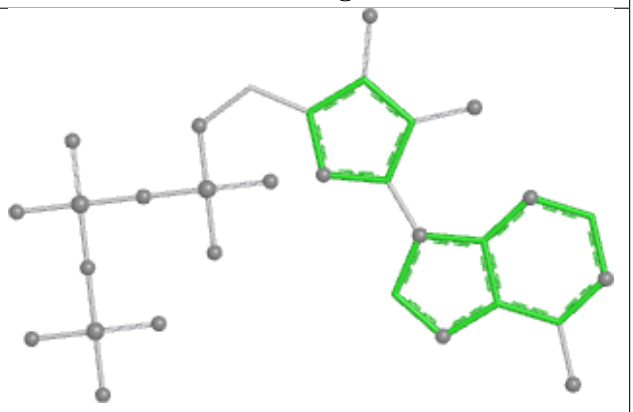
Bond lengths



Bond angles

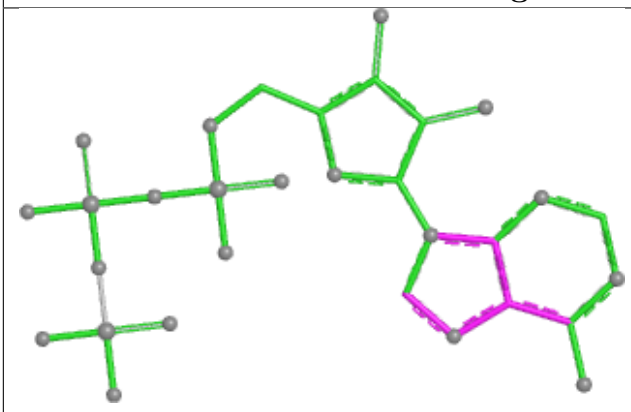


Torsions

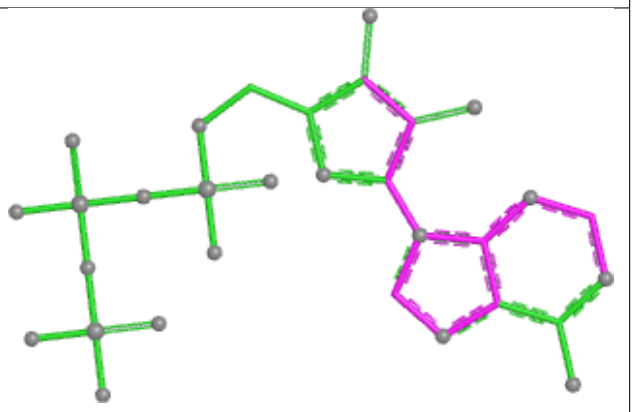


Rings

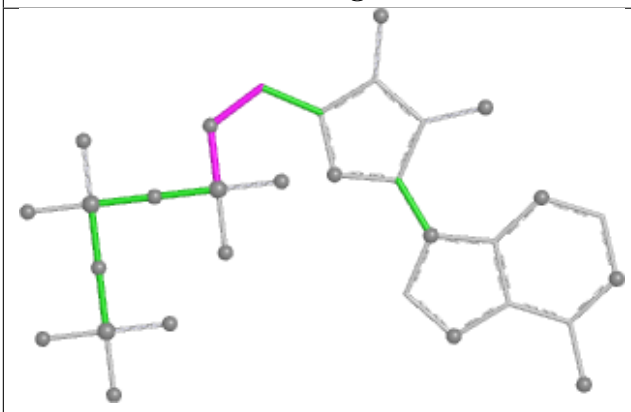
Ligand ATP AA 501



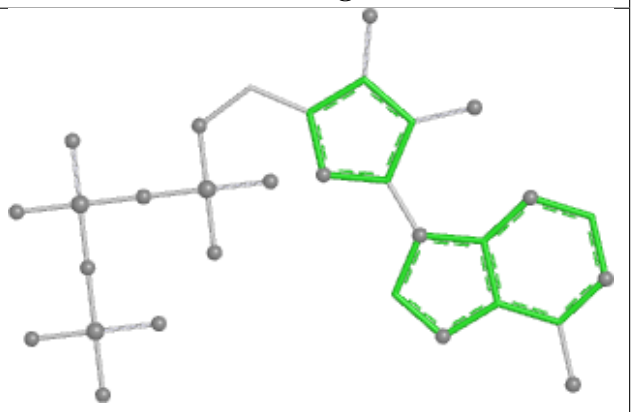
Bond lengths



Bond angles

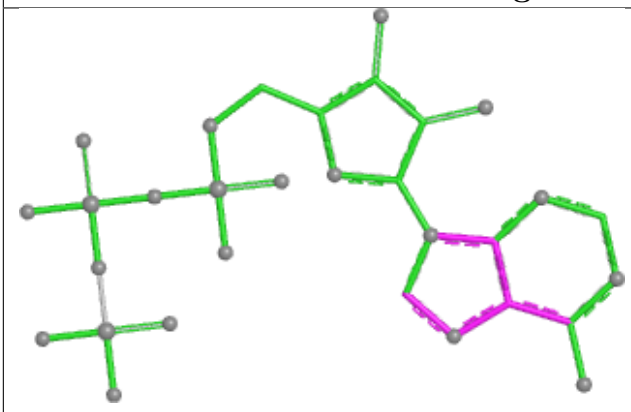


Torsions

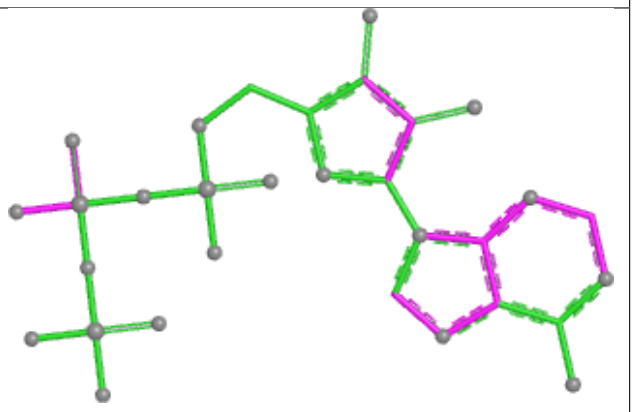


Rings

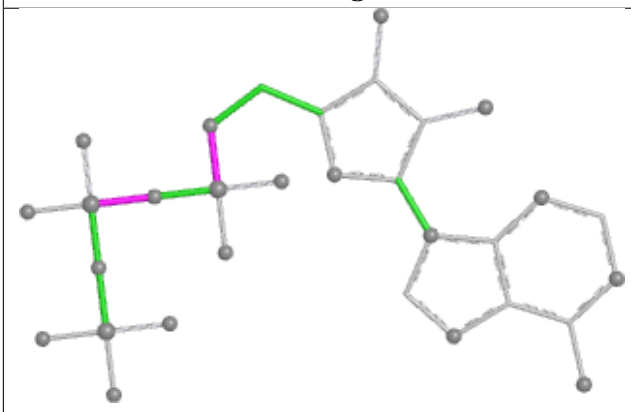
Ligand ATP BE 401



Bond lengths



Bond angles



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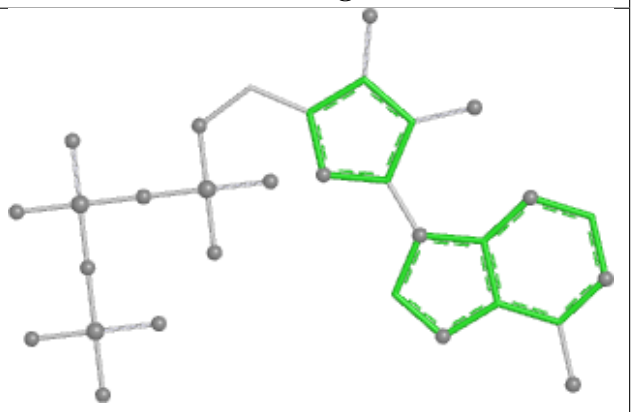

Rings

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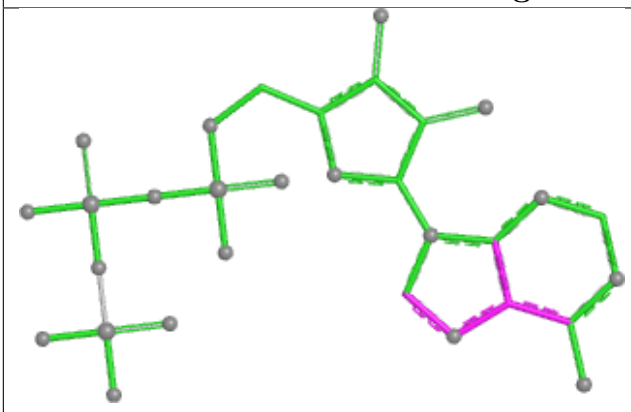
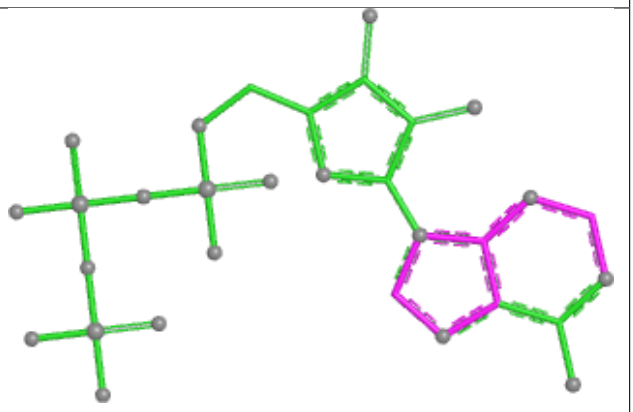
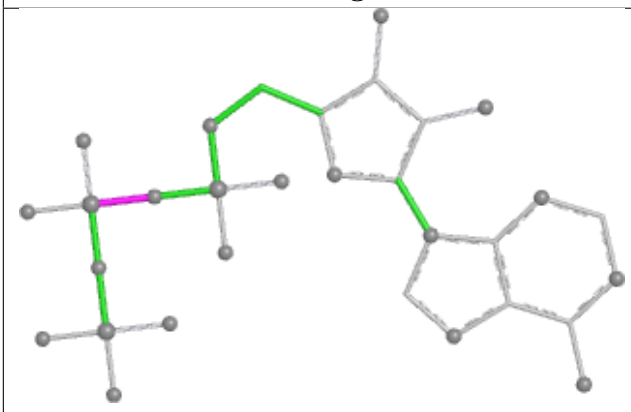


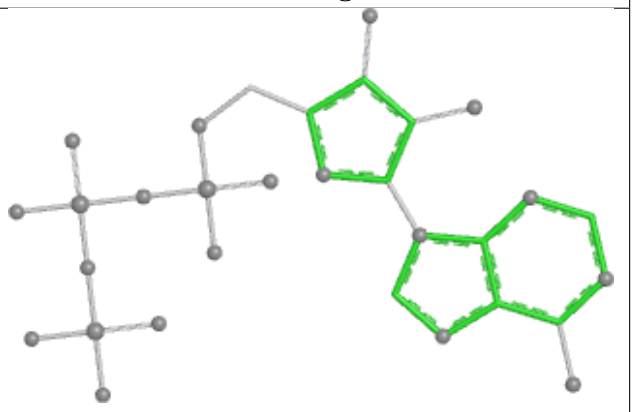
Bond lengths



Bond angles

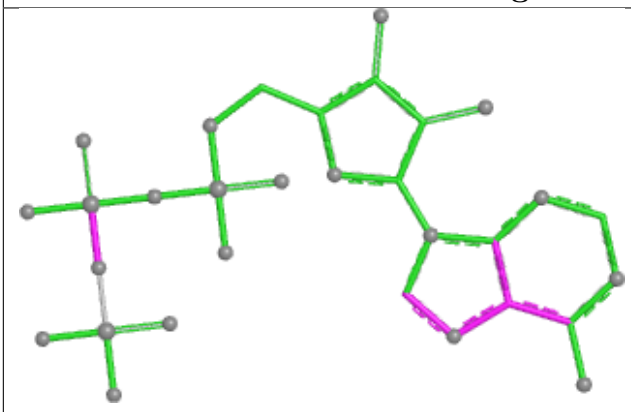


Torsions

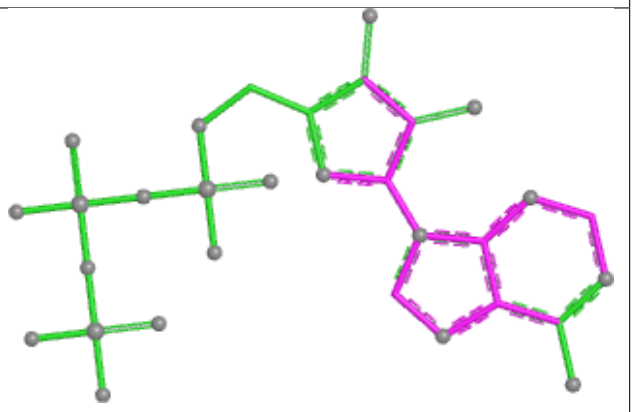


Rings

Ligand ATP BD 501



Bond lengths



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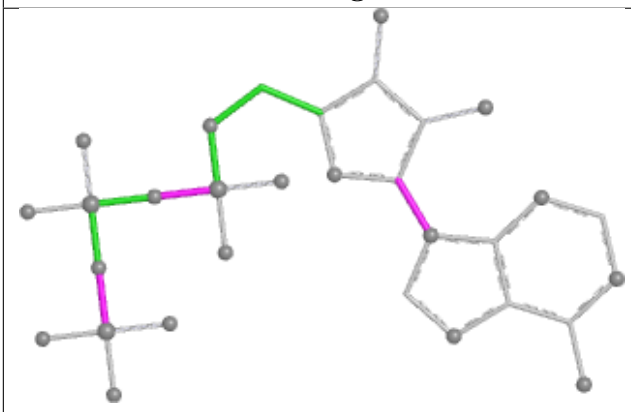

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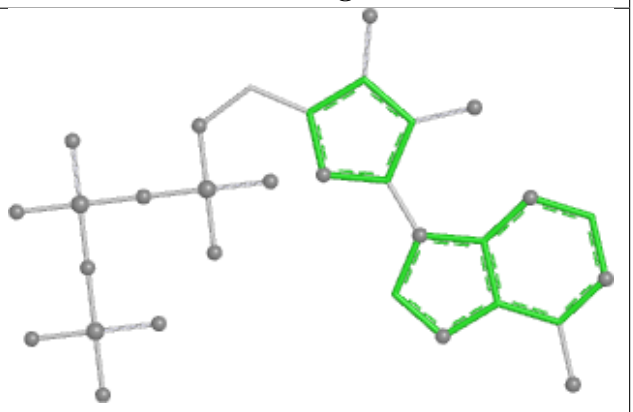
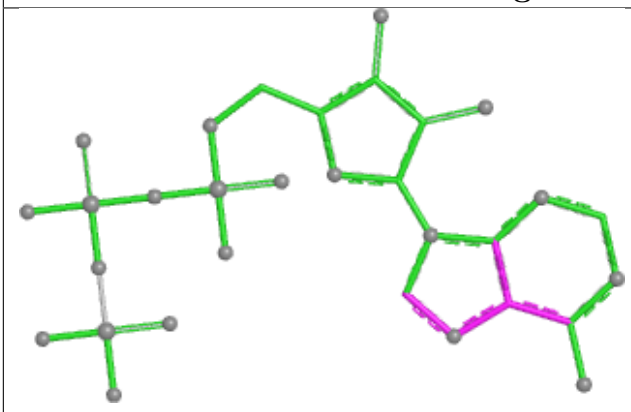


Rings

Ligand ATP BF 501



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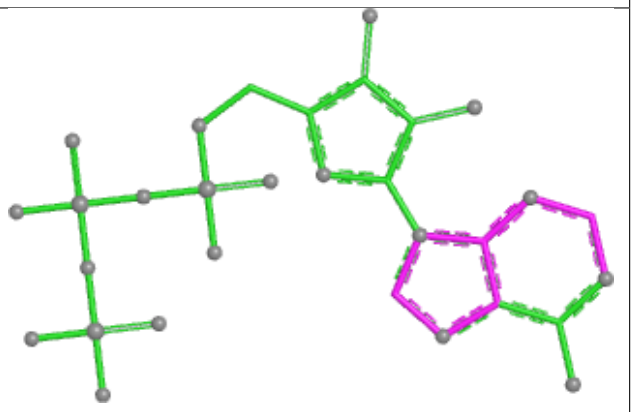

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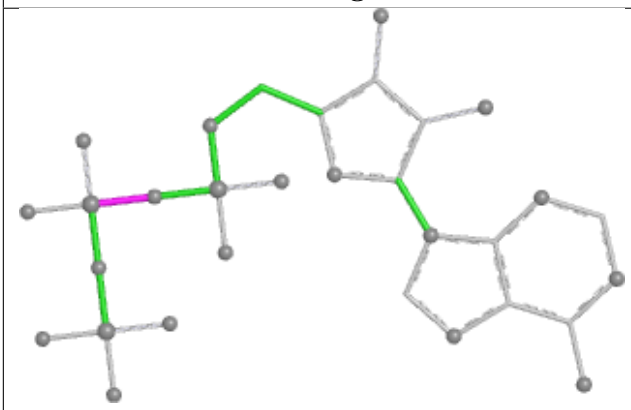

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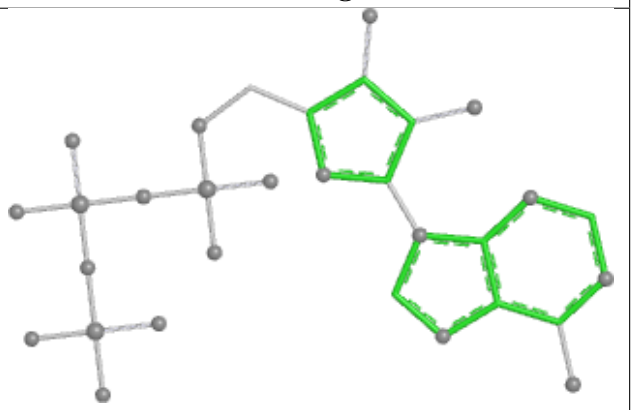
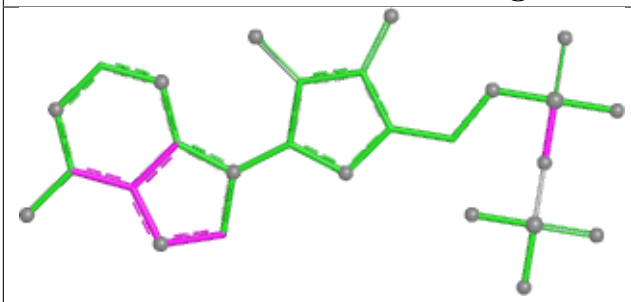
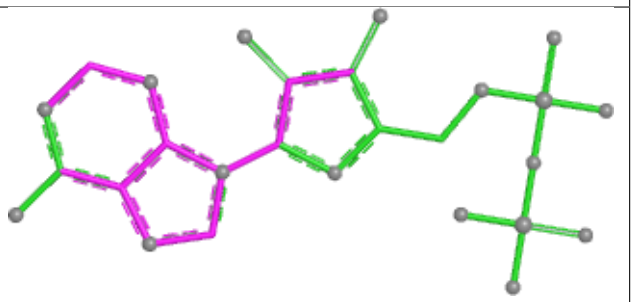


Rings

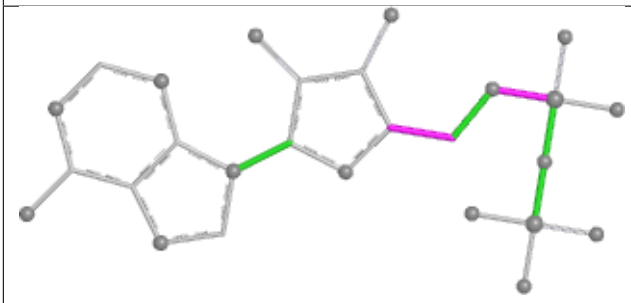
Ligand ADP BC 501



Bond lengths



Bond angles



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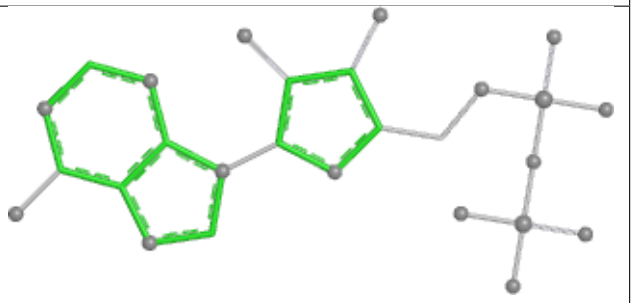

Rings

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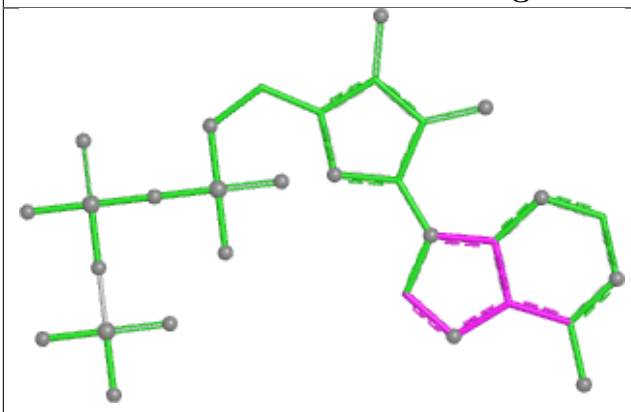
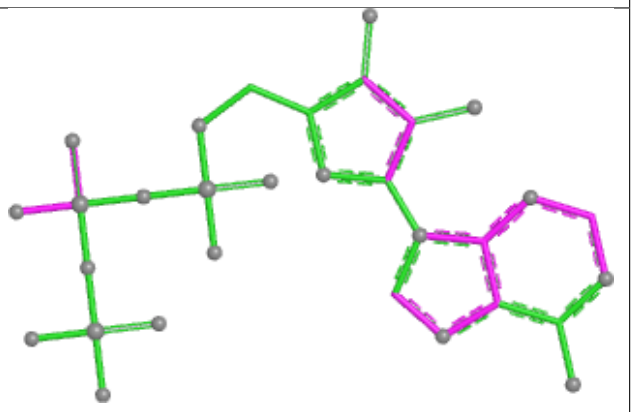
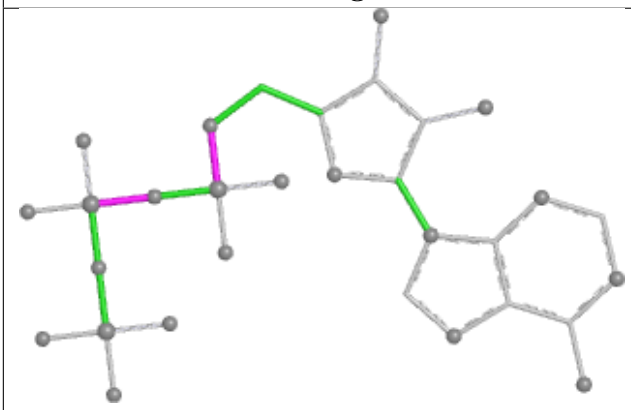


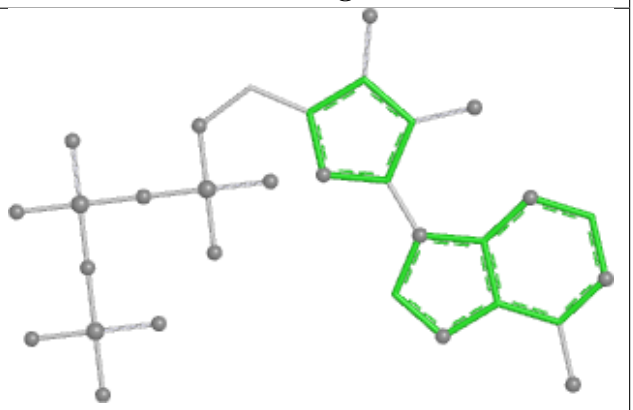
Bond lengths



Bond angles

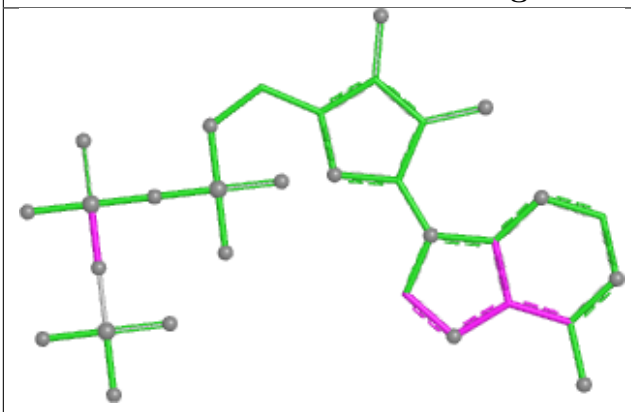


Torsions

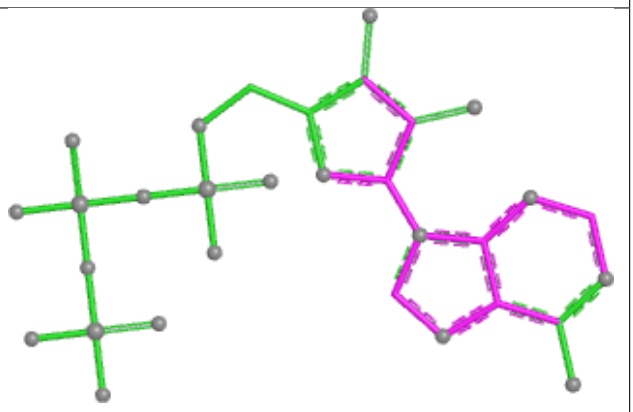


Rings

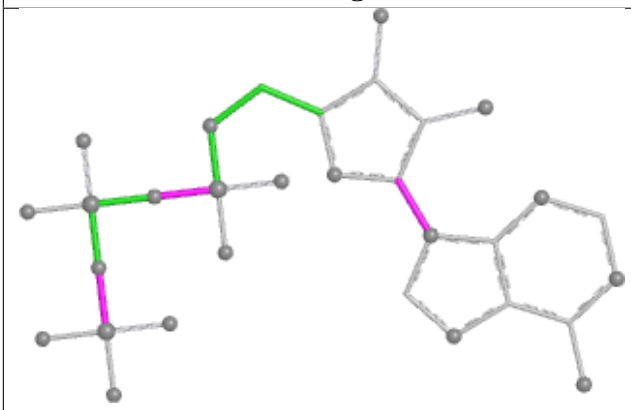
Ligand ATP AD 501



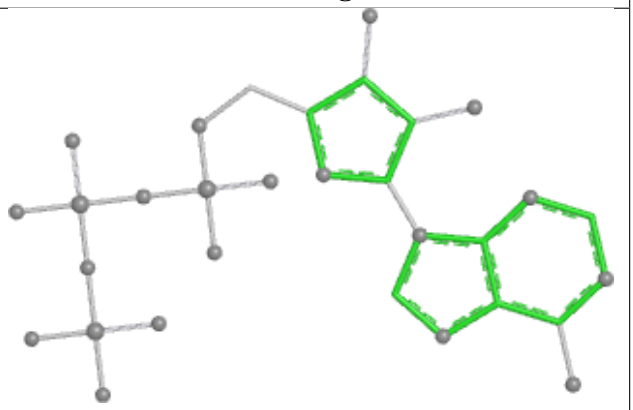
Bond lengths



Bond angles

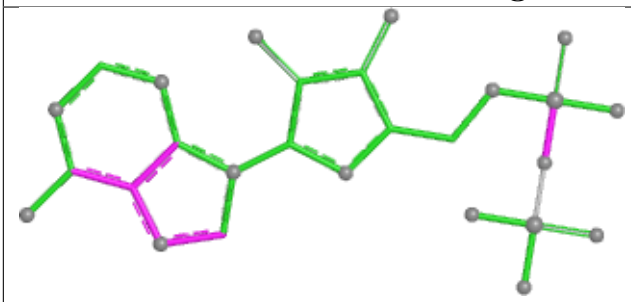


Torsions

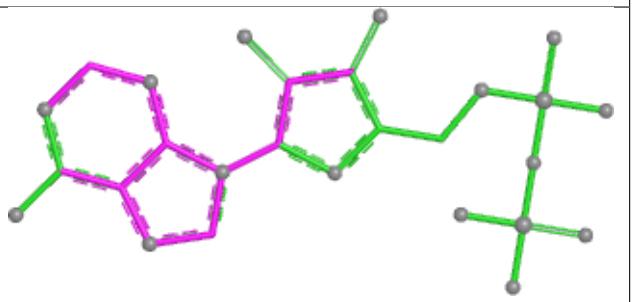


Rings

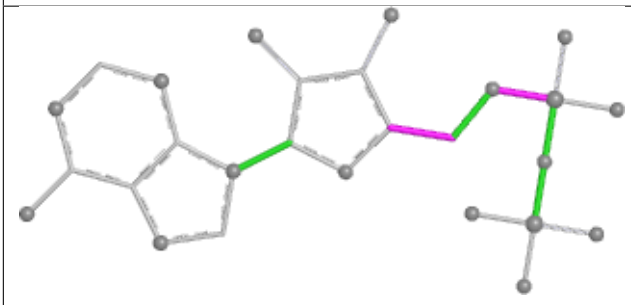
Ligand ADP AC 501



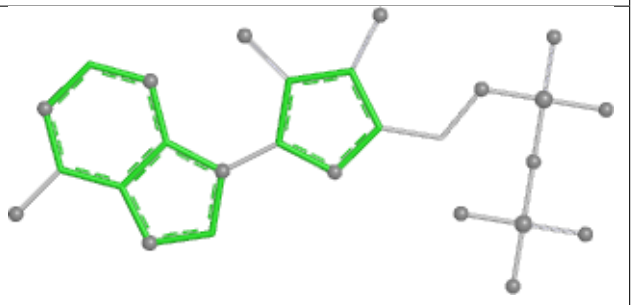
Bond lengths



Bond angles

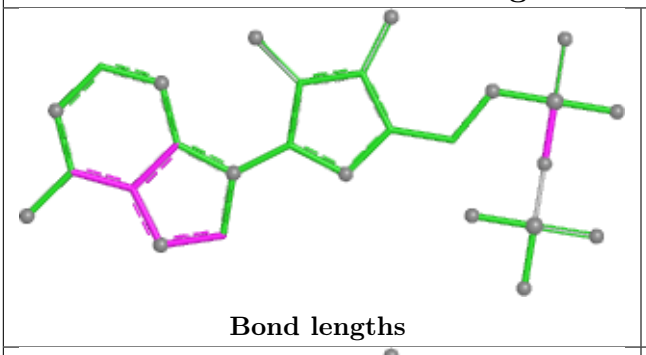


Torsions

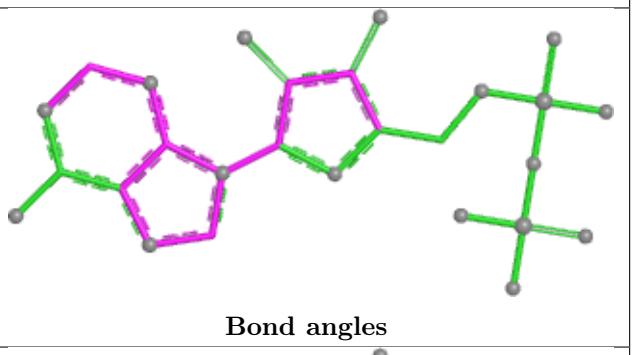


Rings

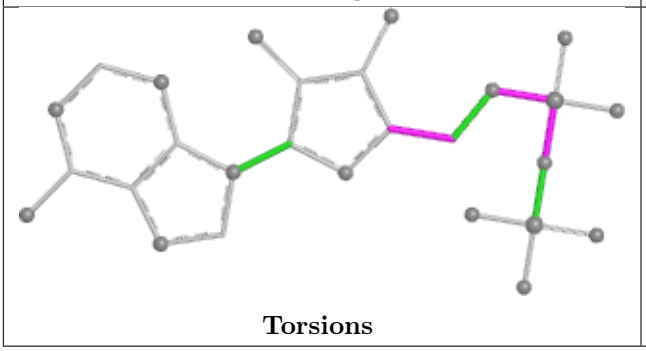
Ligand ADP BB 501



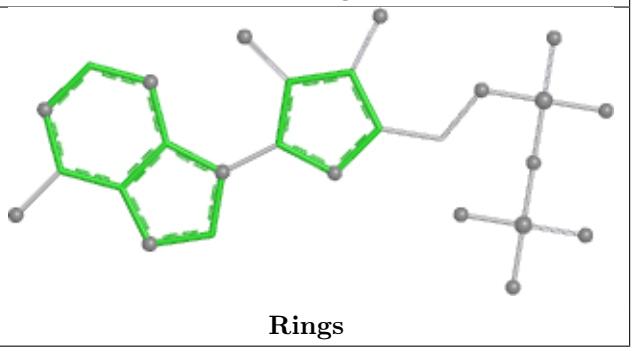
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
12	Bf	3
12	Af	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Bf	269:ALA	C	270:LEU	N	9.72
1	Af	269:ALA	C	270:LEU	N	9.71
1	Af	238:ASN	C	239:TYR	N	7.22
1	Bf	238:ASN	C	239:TYR	N	7.22
1	Af	507:ASP	C	508:SER	N	5.88
1	Bf	507:ASP	C	508:SER	N	5.88

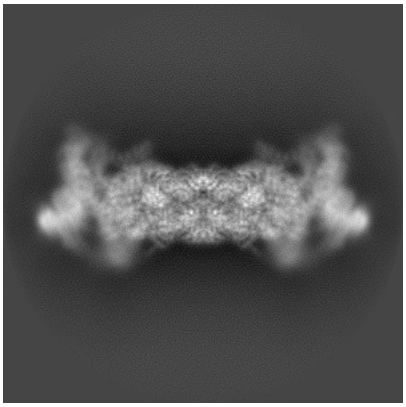
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8332. These allow visual inspection of the internal detail of the map and identification of artifacts.

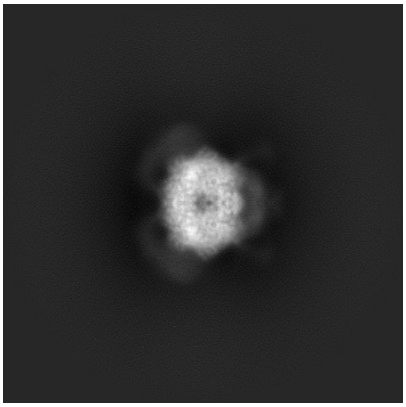
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

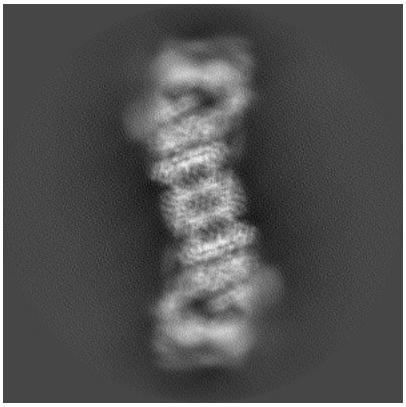
6.1.1 Primary map



X



Y

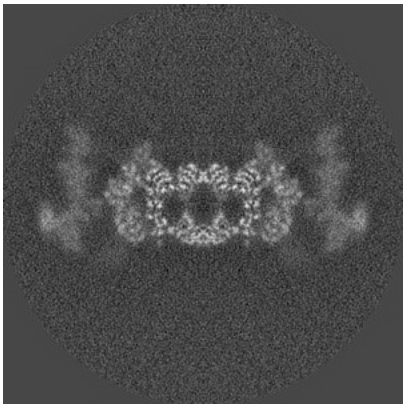


Z

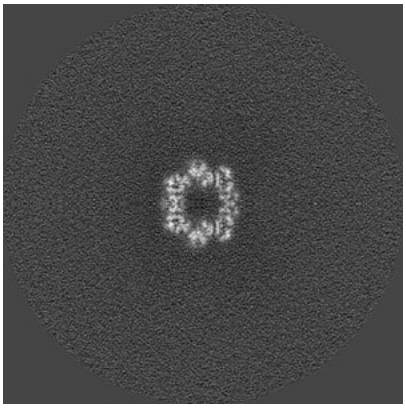
The images above show the map projected in three orthogonal directions.

6.2 Central slices

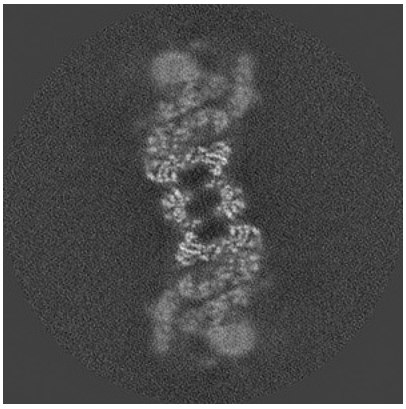
6.2.1 Primary map



X Index: 320



Y Index: 320

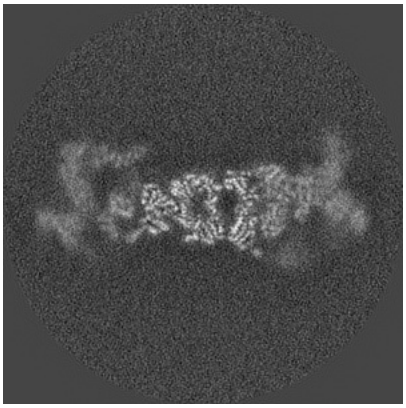


Z Index: 320

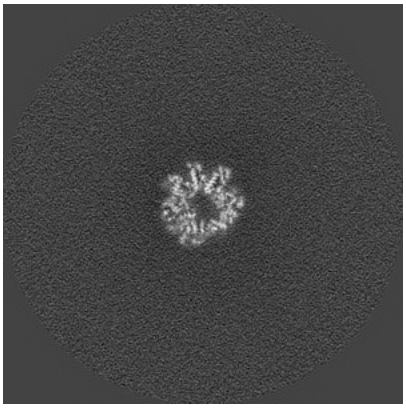
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

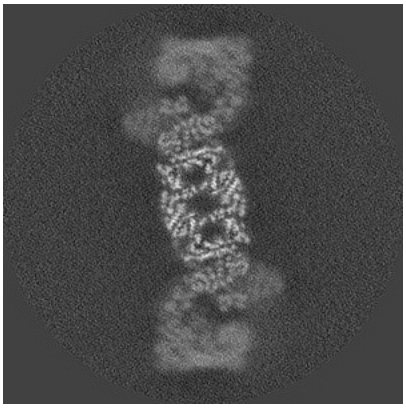
6.3.1 Primary map



X Index: 294



Y Index: 302

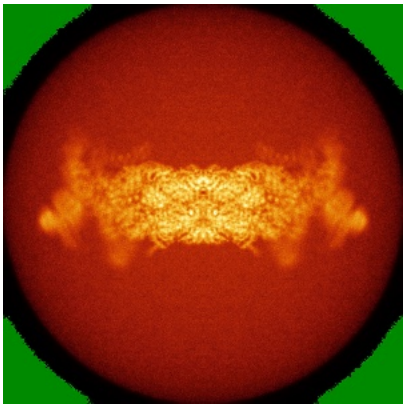


Z Index: 298

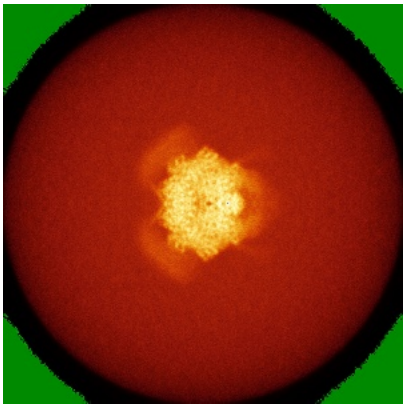
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

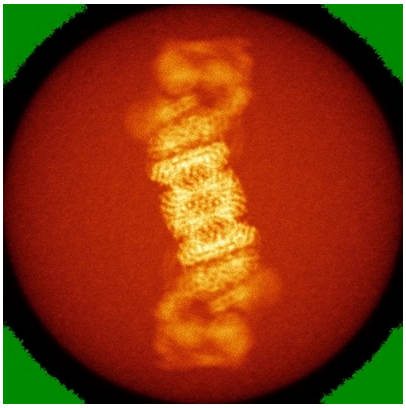
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.005. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

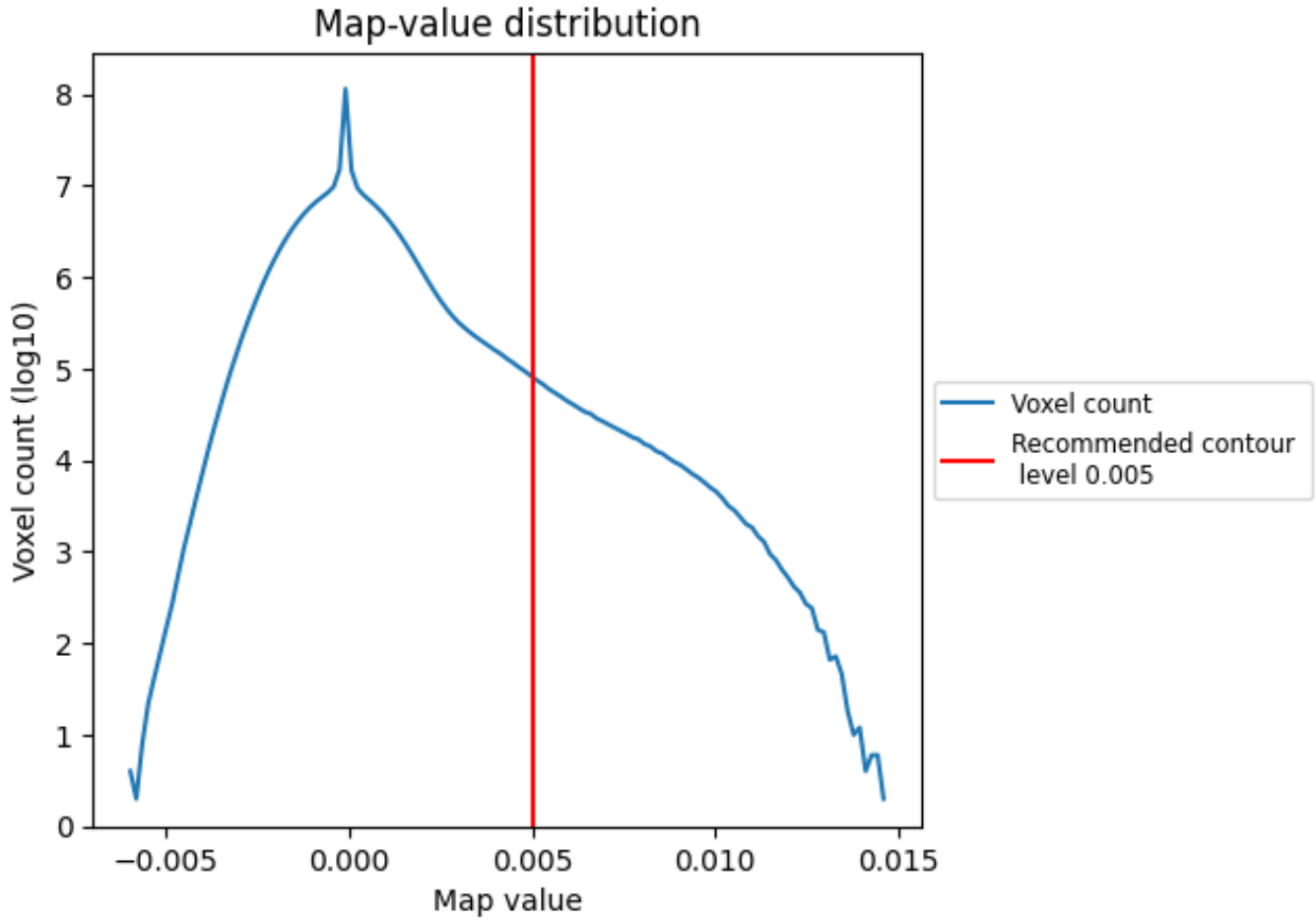
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

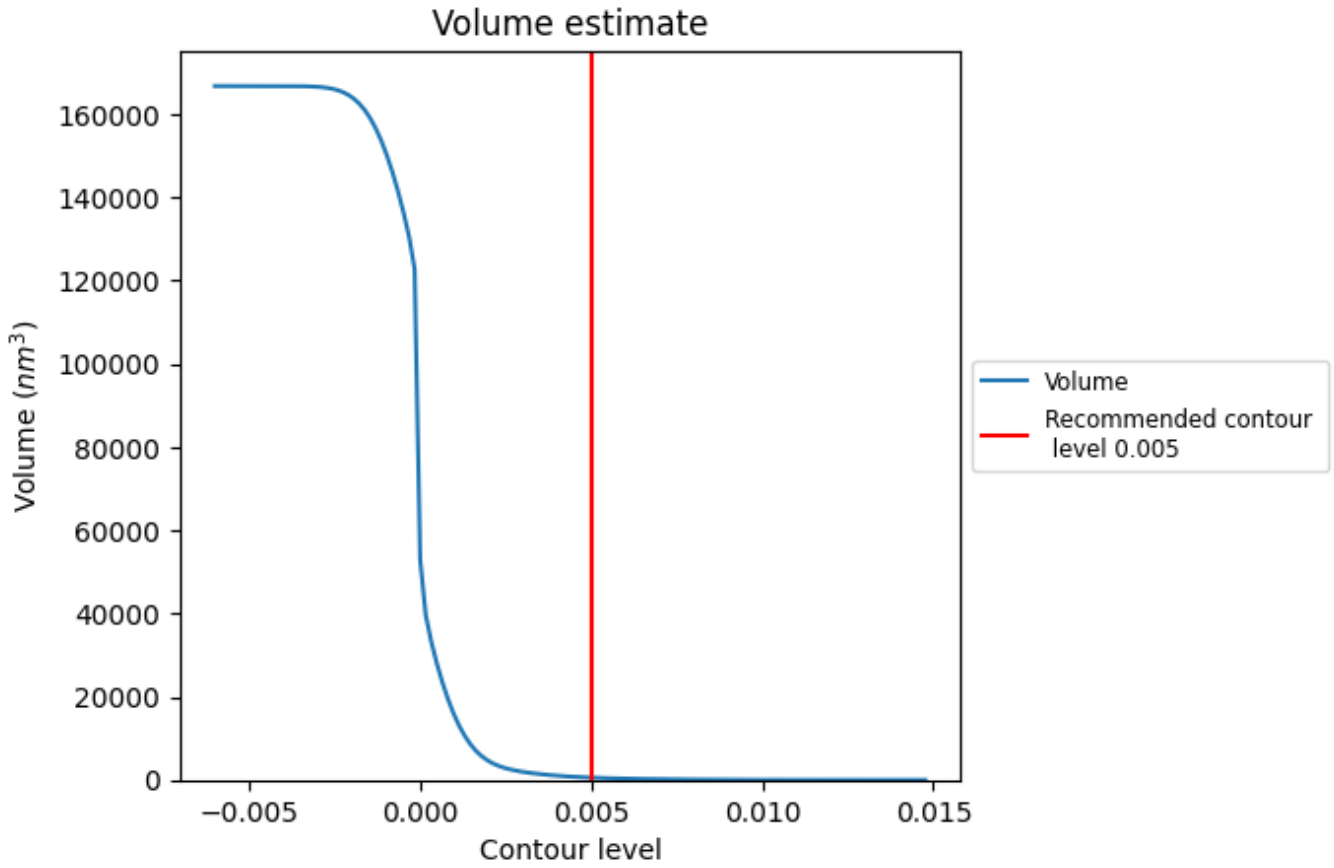
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

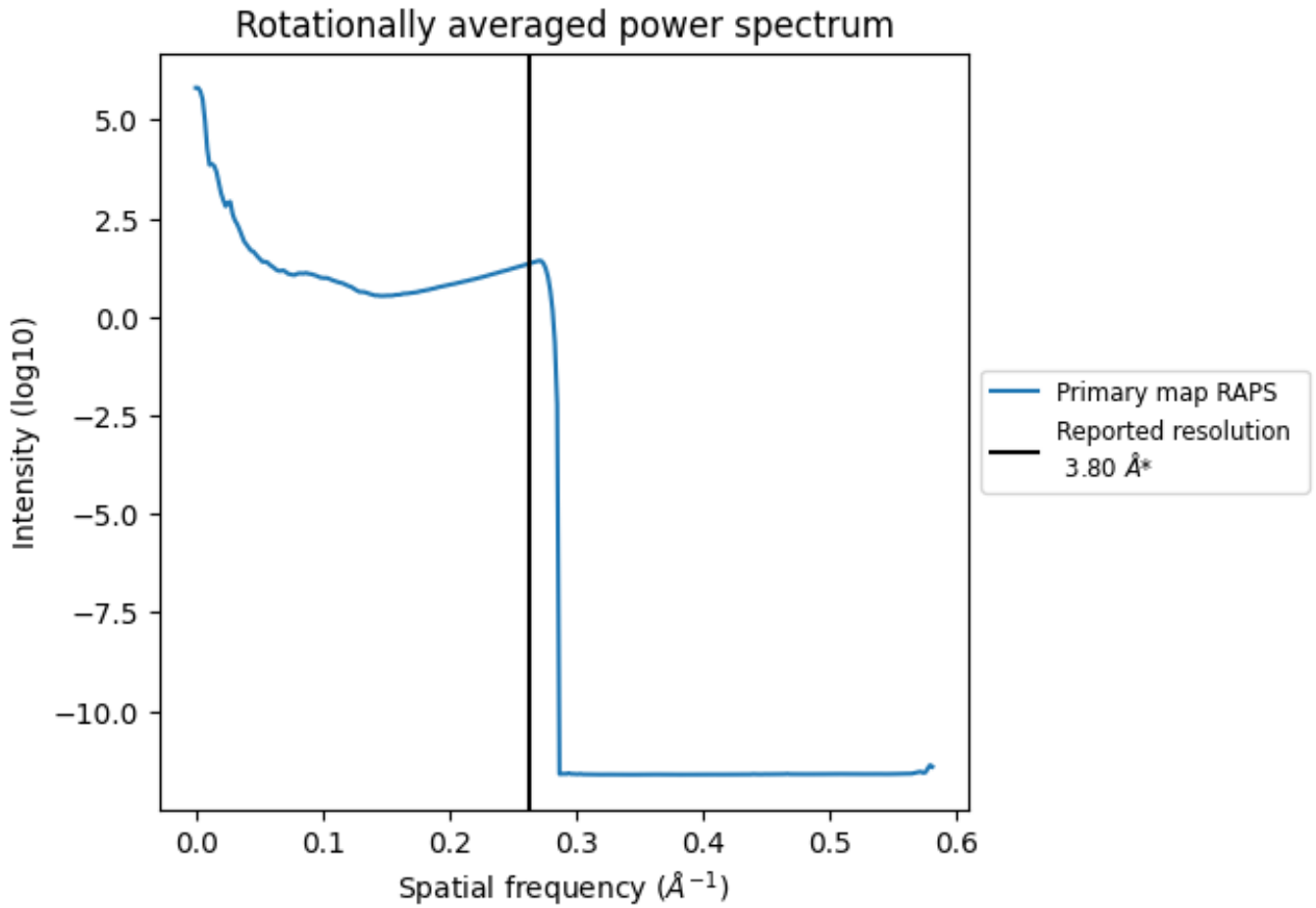
7.2 Volume estimate



The volume at the recommended contour level is 561 nm^3; this corresponds to an approximate mass of 507 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.263 $Å^{-1}$

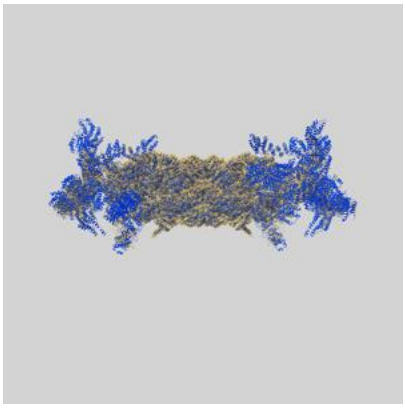
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

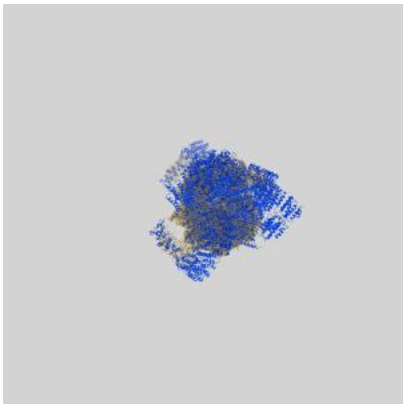
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8332 and PDB model 5T0C. Per-residue inclusion information can be found in section 3 on page 14.

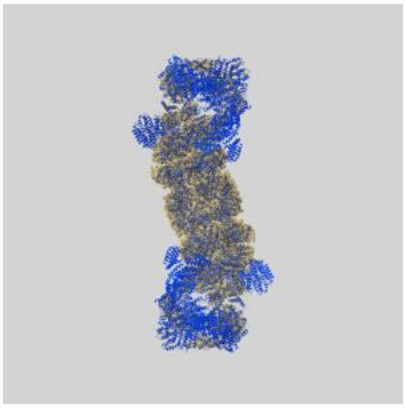
9.1 Map-model overlay



X



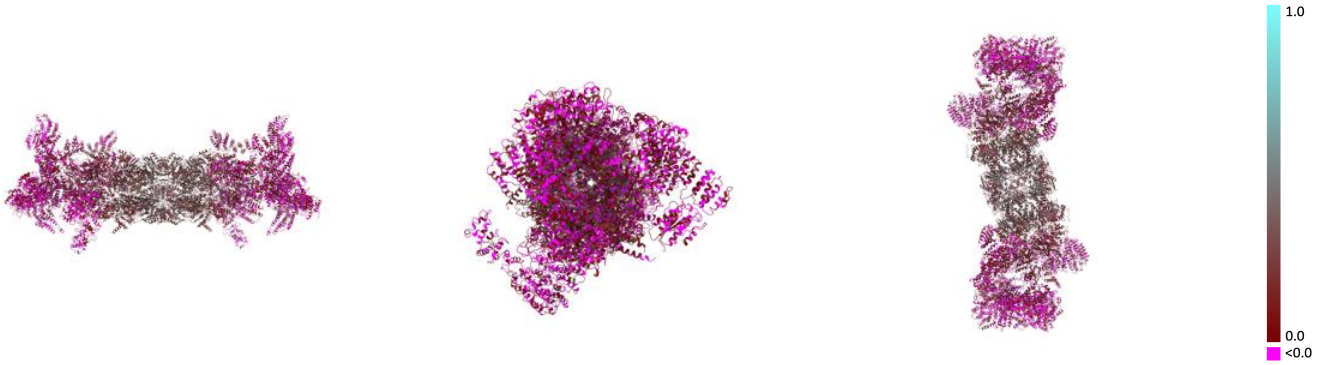
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.005 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

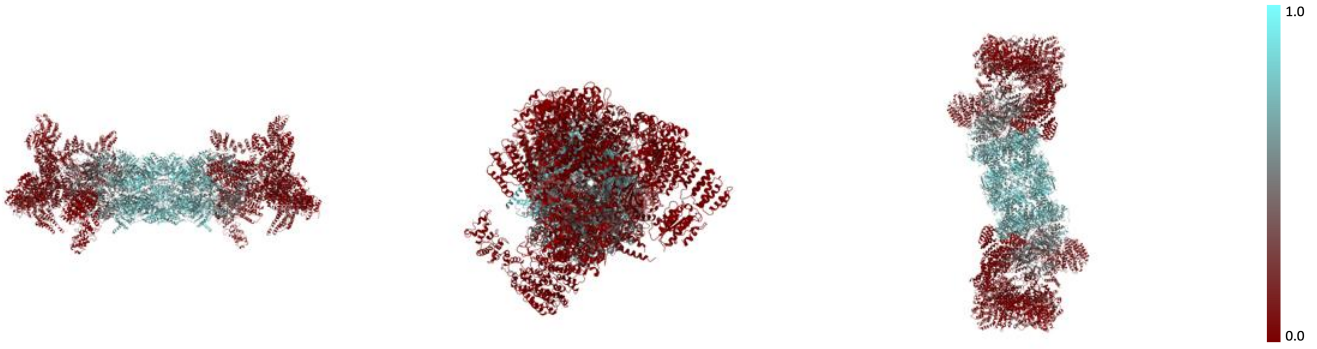
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

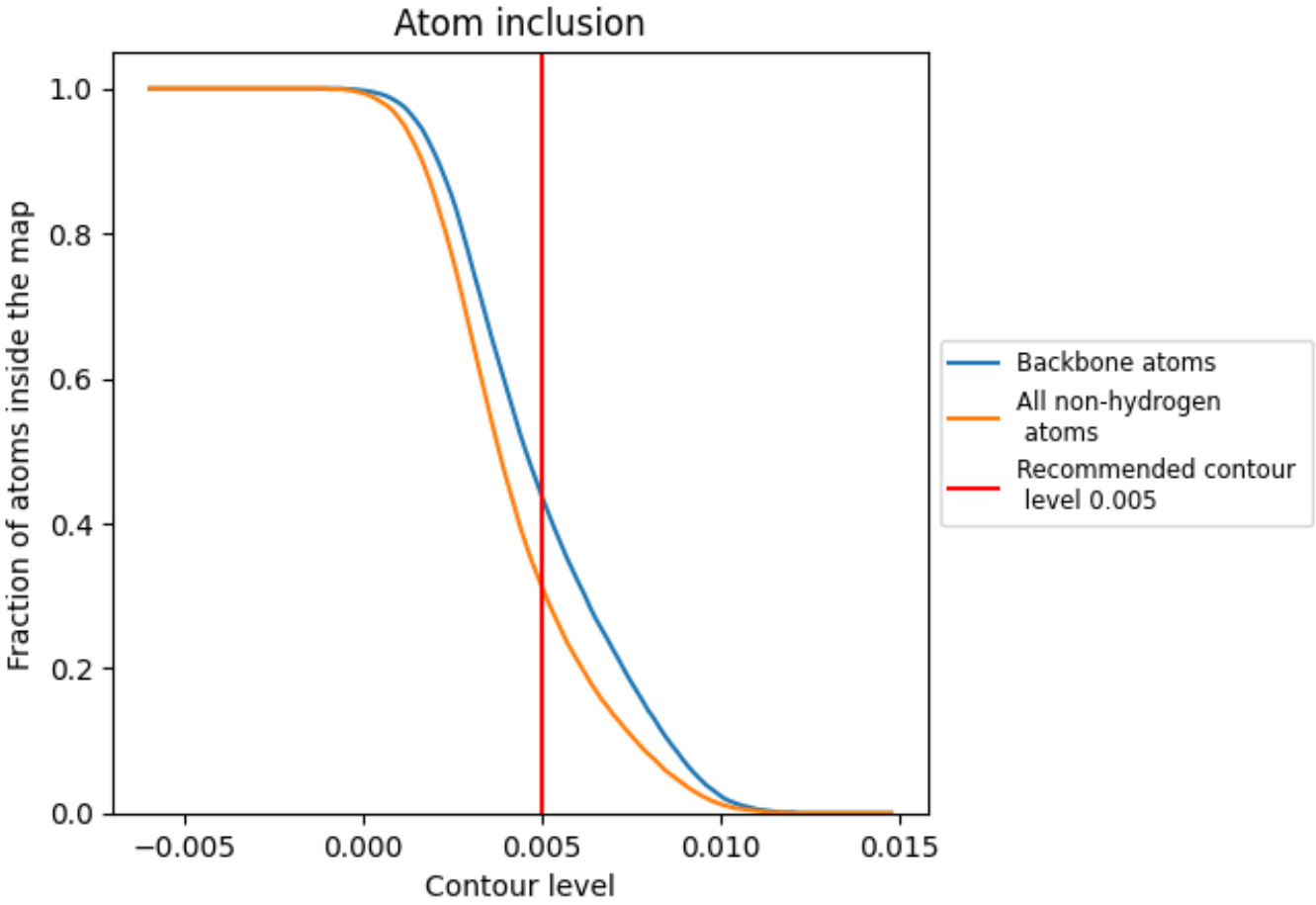
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.005).

9.4 Atom inclusion (i)



At the recommended contour level, 44% of all backbone atoms, 31% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.005) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3110	0.1450
AA	0.4110	0.1820
AB	0.3620	0.1630
AC	0.2780	0.1290
AD	0.2830	0.1410
AE	0.3670	0.1480
AF	0.3980	0.1700
AG	0.6900	0.2970
AH	0.7050	0.2960
AI	0.6650	0.2700
AJ	0.6870	0.2830
AK	0.6590	0.2690
AL	0.6960	0.2930
AM	0.6770	0.2720
AN	0.7510	0.3170
AO	0.7550	0.3170
AP	0.7330	0.3270
AQ	0.7160	0.2980
AR	0.7500	0.3330
AS	0.7150	0.3160
AT	0.7580	0.3260
AU	0.0860	0.0350
AV	0.0220	0.0360
AW	0.0190	0.0680
AX	0.0200	0.0790
AY	0.0790	0.0690
AZ	0.0180	0.0320
Aa	0.0200	0.0300
Ab	0.0080	0.0120
Ac	0.0760	0.0460
Ad	0.0130	0.0320
Ae	0.0210	0.0270
Af	0.0110	0.0120
BA	0.4120	0.1850
BB	0.3630	0.1630

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Chain	Atom inclusion	Q-score
BC	0.2770	0.1300
BD	0.2820	0.1400
BE	0.3650	0.1490
BF	0.3990	0.1680
BG	0.6900	0.2970
BH	0.7050	0.2980
BI	0.6650	0.2710
BJ	0.6870	0.2830
BK	0.6590	0.2700
BL	0.6950	0.2920
BM	0.6760	0.2740
BN	0.7520	0.3180
BO	0.7560	0.3200
BP	0.7330	0.3250
BQ	0.7140	0.2980
BR	0.7510	0.3310
BS	0.7160	0.3150
BT	0.7580	0.3240
BU	0.0850	0.0350
BV	0.0220	0.0370
BW	0.0200	0.0670
BX	0.0190	0.0810
BY	0.0790	0.0670
BZ	0.0180	0.0330
Ba	0.0190	0.0300
Bb	0.0080	0.0120
Bc	0.0740	0.0440
Bd	0.0140	0.0350
Be	0.0210	0.0280
Bf	0.0110	0.0120